

GenCore version 5.1.8
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OM protein - protein search, using sw model

Run on: May 13, 2006, 08:14:12 ; Search time 46 Seconds
(without alignments)

25.162 Million cell updates/sec

Title: US-10-769-514-17

Perfect score: 74

Sequence: 1 MGYGMSKINLHN 14

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

- Issued Patents AA:*
- 1: /cgn2_6/ptodata/1/iaa/5 COMB.pep:*
 - 2: /cgn2_6/ptodata/1/iaa/6 COMB.pep:*
 - 3: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*
 - 4: /cgn2_6/ptodata/1/iaa/PCTRUS COMB.pep:*
 - 5: /cgn2_6/ptodata/1/iaa/RE COMB.pep:*
 - 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	74	100.0	682	2	US-08-613-009A-10
2	74	100.0	682	2	US-08-778-570B-12
3	74	100.0	682	2	US-09-059-584-12
4	74	100.0	702	1	US-08-867-941-25
5	74	100.0	702	2	US-08-613-009A-9
6	74	100.0	702	2	US-09-074-658-25
7	74	100.0	702	2	US-08-778-570B-11
8	74	100.0	702	2	US-09-059-584-11
9	65	87.8	706	2	US-09-059-584-46
10	63	85.1	713	2	US-09-059-584-49
11	42	56.8	696	2	US-09-907-794A-91
12	42	56.8	696	2	US-09-905-125A-91
13	42	56.8	696	2	US-09-902-775A-91
14	42	56.8	696	2	US-09-906-700-91
15	42	56.8	696	2	US-09-903-603A-91
16	42	56.8	696	2	US-09-904-920A-91
17	42	56.8	696	2	US-09-909-064A-91
18	42	56.8	696	2	US-09-905-381A-91
19	42	56.8	696	2	US-09-906-618-91
20	42	56.8	696	2	US-09-906-646-91
21	42	56.8	696	2	US-09-904-462-91
22	42	56.8	696	2	US-09-902-736A-91
23	42	56.8	696	2	US-09-906-722A-91
24	40	54.1	81	2	US-09-270-767-39421
25	40	54.1	81	2	US-09-270-767-54638
26	40	54.1	622	2	US-09-902-540-11017
27	39	52.7	315	2	US-09-134-000C-3657

28	38	51.4	130	2	US-09-328-352-7870	Sequence 7870, Ap
29	38	51.4	282	2	US-09-561-077C-32	Sequence 32, Appl
30	38	51.4	282	2	US-09-221-014-32	Sequence 32, Appl
31	37.5	50.7	596	2	US-09-171-337A-6	Sequence 6, Appli
32	37.5	50.7	596	2	US-09-631-022-6	Sequence 6, Appli
33	37	50.0	42	2	US-09-830-807-7	Sequence 7, Appli
34	37	50.0	167	2	US-09-270-767-37334	Sequence 37334, A
35	37	50.0	167	2	US-09-270-767-52551	Sequence 52551, A
36	37	50.0	217	2	US-09-949-016-6509	Sequence 6509, Ap
37	37	50.0	228	2	US-09-949-016-9719	Sequence 9719, Ap
38	37	50.0	618	2	US-09-134-000C-6538	Sequence 6538, Ap
39	36.5	49.3	351	2	US-09-949-016-6354	Sequence 6354, Ap
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42	36	48.6	192	2	US-09-252-991A-21776	Sequence 21776, A
43	36	48.6	305	2	US-09-315-794-22	Sequence 22, Appl
44	36	48.6	305	2	US-09-389-341-22	Sequence 22, Appl
45	36	48.6	310	2	US-09-107-532A-6246	Sequence 6246, Ap
46	36	48.6	396	2	US-09-489-039A-12215	Sequence 12215, A
47	36	48.6	486	2	US-09-902-540-10512	Sequence 10512, A
48	36	48.6	854	2	US-10-335-711-9	Sequence 2, Appli
49	36	48.6	1115	2	US-10-335-711-2	Sequence 2, Appli
50	36	48.6	1584	2	US-09-976-594-309	Sequence 309, App
51	36	48.6	2763	2	US-08-496-944-2	Sequence 20, Appli
52	35	47.3	93	2	US-08-928-383B-20	Sequence 18828, A
53	35	47.3	129	2	US-09-248-796A-18828	Sequence 33536, A
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57	35	47.3	151	2	US-09-270-767-33218	Sequence 47389, A
58	35	47.3	151	2	US-09-270-767-47389	Sequence 48435, A
59	35	47.3	151	2	US-09-270-767-48435	Sequence 32154, A
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66	35	47.3	370	1	US-08-729-214-27	Sequence 27, Appl
67	35	47.3	370	2	US-09-028-934-27	Sequence 32, Appl
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75	35	47.3	631	2	US-09-949-016-10729	Sequence 5999, Ap
76	35	47.3	688	2	US-09-762-767B-2	Sequence 9561, Ap
77	35	47.3	717	2	US-09-949-016-5999	Sequence 8840, Ap
78	35	47.3	719	2	US-09-949-016-9561	Sequence 28, Appl
79	35	47.3	1259	2	US-08-489-039A-8840	Sequence 29, Appl
80	35	47.3	1498	1	US-08-404-531B-28	Sequence 28, Appl
81	35	47.3	1498	1	US-08-404-531B-29	Sequence 28, Appl
82	35	47.3	1498	2	US-08-476-900A-28	Sequence 28, Appl
83	35	47.3	1498	2	US-08-488-546A-28	Sequence 29, Appl
84	35	47.3	1498	2	US-08-488-546A-29	Sequence 6, Appli
85	35	47.3	1528	1	US-08-463-092B-6	Sequence 6, Appli
86	35	47.3	1528	1	US-08-462-107A-6	Sequence 6, Appli
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90	35	47.3	1580	2	US-08-726-320-1	Sequence 1, Appli
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93	35	47.3	1581	2	US-08-476-900A-6	Sequence 6, Appli
94	35	47.3	1581	2	US-08-488-546A-6	Sequence 3, Appli
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98	35	47.3	1581	2	US-09-208-716-4	Sequence 9, Appli
99	35	47.3	1581	2	US-08-404-531B-9	
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ALIGNMENTS

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RESULT 1
US-08-613-009A-10
; Sequence 10, Application US/08613009A
; Patent No. 6090576
; GENERAL INFORMATION:
; APPLICANT: Myers, Lisa E
; APPLICANT: Schryvers, Anthony B
; APPLICANT: Harkness, Robin E
; APPLICANT: Loosmore, Sheena M.
; APPLICANT: Du, Run-Pan
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: Transferrin Receptor Genes of Moraxella
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: MSG 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/613,009A
; FILING DATE: 08-MAR-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24973
; REFERENCE/DOCKET NUMBER: 1038-542
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 682 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-613-009A-10

Query Match 100.0%; Score 74; DB 2; Length 682;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGYGMALSKINLHN 14
Db 80 MGYGMALSKINLHN 93

RESULT 2
US-08-778-570B-12
; Sequence 12, Application US/08778570B
; Patent No. 6437096
; GENERAL INFORMATION:
; APPLICANT: Myers, Lisa E
; APPLICANT: Schryvers, Anthony B
; APPLICANT: Harkness, Robin E
; APPLICANT: Loosmore, Sheena M.
; APPLICANT: Du, Run-Pan
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: Transferrin Receptor Genes of Moraxella
; NUMBER OF SEQUENCES: 43
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; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: MSG 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/778,570B
; FILING DATE: 03-JAN-1997
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24973
; REFERENCE/DOCKET NUMBER: 1038-664
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 682 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-778-570B-12

Query Match 100.0%; Score 74; DB 2; Length 682;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGYGMALSKINLHN 14
Db 80 MGYGMALSKINLHN 93

RESULT 3
US-09-059-584-12
; Sequence 12, Application US/09059584
; Patent No. 6440701
; GENERAL INFORMATION:
; APPLICANT: Myers, Lisa E
; APPLICANT: Schryvers, Anthony B
; APPLICANT: Harkness, Robin E
; APPLICANT: Loosmore, Sheena M.
; APPLICANT: Du, Run-Pan
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: Transferrin Receptor Genes of Moraxella
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: MSG 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/059,584
; FILING DATE: 14-APR-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/778,570
; FILING DATE: 03-JAN-1997
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; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: MSG 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/074,658
; FILING DATE: 08-MAY-1998
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-795
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 702 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-074-658-25
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Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGYGMALSKINLHN 14
Db 100 MGYGMALSKINLHN 113

RESULT 7
US-08-778-570B-11
; Sequence 11, Application US/08778570B
; Patent No. 6437096
; GENERAL INFORMATION:
; APPLICANT: Myers, Lisa E
; APPLICANT: Schryvers, Anthony B
; APPLICANT: Harkness, Robin E
; APPLICANT: Loosmore, Sheena M.
; APPLICANT: Du, Run-Pan
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: Transferrin Receptor Genes of Moraxella
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: MSG 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/778,570B
; FILING DATE: 03-JAN-1997
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24973
; REFERENCE/DOCKET NUMBER: 1038-664
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
```

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; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 702 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-778-570B-11
Query Match 100.0%; Score 74; DB 2; Length 702;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGYGMALSKINLHN 14
Db 100 MGYGMALSKINLHN 113

RESULT 8
US-09-059-584-11
; Sequence 11, Application US/09059584
; Patent No. 6440701
; GENERAL INFORMATION:
; APPLICANT: Myers, Lisa E
; APPLICANT: Schryvers, Anthony B
; APPLICANT: Harkness, Robin E
; APPLICANT: Loosmore, Sheena M.
; APPLICANT: Du, Run-Pan
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: Transferrin Receptor Genes of Moraxella
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: MSG 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/059,584
; FILING DATE: 14-APR-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/778,570
; FILING DATE: 03-JAN-1997
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24973
; REFERENCE/DOCKET NUMBER: 1038-794
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 702 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-059-584-11
Query Match 100.0%; Score 74; DB 2; Length 702;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGYGMALSKINLHN 14
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APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,794A
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 91
LENGTH: 696
TYPE: PRT
ORGANISM: Homo sapiens
US-09-907-794A-91
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Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
Qy 4 GMAISKINLN 14
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Db 493 GVSLSKLSLN 503
RESULT 12
US-09-905-125A-91
Sequence 91, Application US/09905125A
Patent No. 6664376
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.

APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/905,125A
CURRENT FILING DATE: 2001-07-12
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
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PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 91
LENGTH: 696
TYPE: PRT
ORGANISM: Homo sapiens
US-09-905-125A-91
Query Match 56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
Qy 4 GMAISKINLN 14
|:|||||
Db 493 GVSLSKLSLN 503
RESULT 13
US-09-902-775A-91
Sequence 91, Application US/09902775A
Patent No. 6686451
GENERAL INFORMATION:


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; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-906-700-91

Query Match          56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      4 GVALSKINLHN 14
Db      493 GVSLSKLSLHN 503

RESULT 15
; Sequence 91, Application US/09903603A
; Patent No. 6767995
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; TITLE OF INVENTION: Secreded and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: GNE.1618P2C12
; CURRENT APPLICATION NUMBER: US/09/903,603A
; PRIOR FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
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; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-603A-91

Query Match          56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      4 GVALSKINLHN 14
Db      493 GVSLSKLSLHN 503

RESULT 16
US-09-904-920A-91
; Sequence 91, Application US/09904920A
; Patent No. 6806352
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreded and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,920A
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
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; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-904-920A-91

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Query Match 56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

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Qy 4 GWALSKINLHN 14
|:||||:|
Db 493 GVSLSKLSLHN 503

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RESULT 17
US-09-909-064-91
; Sequence 91, Application US/09909064
; Patent No. 6818449
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumaq, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

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; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,064
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-909-064-91

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Query Match 56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

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Qy 4 GWALSKINLHN 14
|:||||:|
Db 493 GVSLSKLSLHN 503

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RESULT 18
US-09-905-381A-91
; Sequence 91, Application US/09905381A
; Patent No. 6818746
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.

```

```
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,381A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-381A-91

Query Match 56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMAISKINLHN 14
DB 493 GVSLSKSLHN 503

RESULT 19
US-09-906-618-91
; Sequence 91, Application US/09906618
; Patent No. 6828146
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
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; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,618
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-906-618-91

Query Match 56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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Qy 4 GMAISKINLHN 14
|:|:|:|:|:|:|
Db 493 GVSLSKLSLHN 503

RESULT 20

US-09-906-646-91
; Sequence 91, Application US/09906646

; Patent No. 6852848

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnovers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/906,646

; PRIOR FILING DATE: 2002-01-22

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05

; PRIOR APPLICATION NUMBER: PCT/US99/28214

; PRIOR FILING DATE: 1999-11-29

; PRIOR APPLICATION NUMBER: PCT/US99/28313

; PRIOR FILING DATE: 1999-11-30

; PRIOR APPLICATION NUMBER: PCT/US99/28564

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/28565

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/30095

; PRIOR FILING DATE: 1999-12-16

; PRIOR APPLICATION NUMBER: PCT/US99/30911

; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US99/30999

; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US00/00219

; PRIOR FILING DATE: 2000-01-05

; NUMBER OF SEQ ID NOS: 423

; SEQ ID NO 91

; LENGTH: 696

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-906-646-91

Query Match 56.8%; Score 42; DB 2; Length 696;

Best Local Similarity 63.6%; Pred. No. 20;

Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMAISKINLHN 14
|:|:|:|:|:|:|

Db 493 GVSLSKLSLHN 503

RESULT 21

US-09-904-462-91

; Sequence 91, Application US/09904462

; Patent No. 6878807

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnovers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/904,462

; PRIOR FILING DATE: 2001-07-13

; PRIOR APPLICATION NUMBER: 09/665,350

; PRIOR FILING DATE: 2000-09-18

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05

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; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-904-462-91

Query Match      56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      4 GMA1SK1NLHN 14
      |::|||::|||
Db      493 GVSLSKLSLHN 503

RESULT 22
US-09-902-736A-91
; Sequence 91, Application US/09902736A
; Patent No. 6894148
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gertitsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,736A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
```

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; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-902-736A-91

Query Match      56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      4 GMA1SK1NLHN 14
      |::|||::|||
Db      493 GVSLSKLSLHN 503

RESULT 23
US-09-906-722A-91
; Sequence 91, Application US/09906722A
; Patent No. 6946262
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gertitsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
```


Fri May 19 14:23:23 2006

; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: GNE.1618P2C61
; CURRENT APPLICATION NUMBER: US/09/906,722A
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-906-722A-91

Query Match 56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMAISKINLHN 14
|||:::|
Db 493 GVSLSKLSLHN 503

RESULT 24
US-09-270-767-39421
; Sequence 39421, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 39421
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:

; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-39421

Query Match 54.1%; Score 40; DB 2; Length 81;
Best Local Similarity 53.8%; Pred. No. 4.1;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 GYGMALSKINLHN 14
|||:::|
Db 45 GYMHSIPRINLHN 57

RESULT 25
US-09-270-767-54638
; Sequence 54638, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 54638
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-54638

Query Match 54.1%; Score 40; DB 2; Length 81;
Best Local Similarity 53.8%; Pred. No. 4.1;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 GYGMALSKINLHN 14
|||:::|
Db 45 GYMHSIPRINLHN 57

RESULT 26
US-09-902-540-11017
; Sequence 11017, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 11017
; LENGTH: 622
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-11017

Query Match 54.1%; Score 40; DB 2; Length 622;
Best Local Similarity 63.6%; Pred. No. 42;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2 GYGMALSKINL 12
|||:::|
Db 405 GYGMALLSLRL 415

RESULT 27

```
US-09-134-000C-3657
; Sequence 3657, Application US/09134000C
; Patent No. 6617156
; ORGANISM: Lactobacillus reuteri
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; PRIOR FILING DATE: 1998-08-13
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 60/055,778
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3657
; LENGTH: 315
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-3657

Query Match      52.7%; Score 39; DB 2; Length 315;
Best Local Similarity 54.5%; Pred. No. 30;
Matches 6; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      2 GYGMALSKINL 12
       |.:|.:|.:|
Db      25 GFGLAITKFN 35

RESULT 28
US-09-328-352-7870
; Sequence 7870, Application US/09328352
; Patent No. 6562958
; ORGANISM: Acinetobacter baumannii
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-032A
; CURRENT APPLICATION NUMBER: US/09/328,352
; PRIOR FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 7870
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-7870

Query Match      51.4%; Score 38; DB 2; Length 130;
Best Local Similarity 50.0%; Pred. No. 17;
Matches 6; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY      3 YGMALSKINLH 14
       |.:|.:|.:|
Db      99 WGMWMSAISHS 110

RESULT 29
US-09-561-077C-32
; Sequence 32, Application US/09561077C
; Patent No. 6708501
; ORGANISM: Lactobacillus reuteri
; GENERAL INFORMATION:
; APPLICANT: Rosson, Reinhardt D.
; APPLICANT: Deng, Ming-de
; TITLE OF INVENTION: LINOLEATE ISOMERASE
; FILE REFERENCE: 3161-20-C1
; CURRENT APPLICATION NUMBER: US/09/561,077C
; PRIOR FILING DATE: 2000-04-28
; PRIOR FILING DATE: 1999-06-30
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 32
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```
; LENGTH: 282
; TYPE: PRT
; ORGANISM: Lactobacillus reuteri
US-09-561-077C-32

Query Match      51.4%; Score 38; DB 2; Length 282;
Best Local Similarity 46.2%; Pred. No. 41;
Matches 6; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY      1 MGYGMALSKINLH 13
       |.:|.:|.:|
Db      132 LNYGIWLKVRHL 144

RESULT 30
US-09-221-014-32
; Sequence 32, Application US/09221014C
; Patent No. 6743609
; ORGANISM: Lactobacillus reuteri
; GENERAL INFORMATION:
; APPLICANT: Rosson, Reinhardt D.
; APPLICANT: Grund, Alan D.
; APPLICANT: Deng, Ming-de
; APPLICANT: Sanchez-Riera, Fernando
; TITLE OF INVENTION: LINOLEATE ISOMERASE
; FILE REFERENCE: 3161-20
; CURRENT APPLICATION NUMBER: US/09/221,014C
; PRIOR FILING DATE: 1998-12-23
; PRIOR FILING DATE: 1997-12-23
; EARLIER APPLICATION NUMBER: 60/068,617
; EARLIER FILING DATE: 1997-12-23
; EARLIER APPLICATION NUMBER: 60/089,560
; EARLIER FILING DATE: 1998-06-17
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32
; LENGTH: 282
; TYPE: PRT
; ORGANISM: Lactobacillus reuteri
US-09-221-014-32

Query Match      51.4%; Score 38; DB 2; Length 282;
Best Local Similarity 46.2%; Pred. No. 41;
Matches 6; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY      1 MGYGMALSKINLH 13
       |.:|.:|.:|
Db      132 LNYGIWLKVRHL 144

RESULT 31
US-09-171-337A-6
; Sequence 6, Application US/09171337A
; Patent No. 6300095
; ORGANISM: Lactobacillus reuteri
; GENERAL INFORMATION:
; APPLICANT: BARREDO FUENTE, Jose Luis
; APPLICANT: RODRIGUEZ SAIZ, Marta
; APPLICANT: COLLADOS DE LA VIEJA, Alfonso J.
; APPLICANT: MORENO VALLE, Migeul Angel
; APPLICANT: SALTO MALDONADO, Francisco
; APPLICANT: DIEZ GARCIA, Bruno
; TITLE OF INVENTION: PROMOTERS OF THE GENES GLUTAMATE
; TITLE OF INVENTION: DESHYDROGENASE, -N-ACETYLHEXOSAMINIDASE
; TITLE OF INVENTION: AND -ACTIN AND THEIR USE IN FILAMENTOUS
; TITLE OF INVENTION: FUNGI EXPRESSION, SECRETION AND ANTISENSE
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESS: LADAS & PARRY
; STREET: 26 WEST 61 STREET
; CITY: NEW YORK
; STATE: NY
; COUNTRY: USA
; ZIP: 10023
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3-1/4" Disk 1.44MB
```

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;
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Microsoft Windows for Workgroups 3.11
; SOFTWARE: WordPerfect 8 for Windows
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/171,337A
; FILING DATE: 14-May-1999
; CLASSIFICATION: 536
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/ES98/00056
; FILING DATE: 5-MAR-1998
; APPLICATION NUMBER: ES9700482
; FILING DATE: 5-MAR-1997
;
; ATTORNEY/AGENT INFORMATION:
; NAME: MASS, Clifford J.
; REGISTRATION NUMBER: 30,086
; (C) REF./DOCKET NO.: U-011948-3
;
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 233288
;
; INFORMATION FOR SEQ ID NO: 6
; SEQUENCE CHARACTERISTICS:
; LENGTH: 596 amino acids
; TYPE: amino acids
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: Penicillium chrysogenum
; FEATURE:
; OTHER INFORMATION: amino acid sequence of the -N-
; acetylhexosaminidase enzyme
; (EC.3.2.1.52) with a
; molecular weight of 66545 Da.
;
; SEQUENCE DESCRIPTION: SEQ ID NO: 6
US-09-171-337A-6
Query Match 50.7%; Score 37.5; DB 2; Length 596;
Best Local Similarity 81.8%; Pred. No. 1.2e+02;
Matches 9; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

Qy 4 GWALSKIN-LH 13
Db 202 GWALSKLVNH 212

RESULT 32
US-09-631-022-6
; Sequence 6, Application US/09631022
; Patent No. 6558921
;
; GENERAL INFORMATION:
; APPLICANT: BARREDO FUENTE, Jose Luis
; RODRIGUEZ SAIZ, Marta
; COLLADOS DE LA VIEJA, Alfonso J.
; MORENO VALLE Migueu Angel
; SALTO MALDONADO, Francisco
; DIEZ GARCIA, Bruno
;
; TITLE OF INVENTION: PROMOTERS OF THE GENES GLUTAMATE
; DESHYDROGENASE, -N-ACETYLHEXOSAMINIDASE
; AND -ACTIN AND THEIR USE IN FILAMENTOUS
; FUNGI EXPRESSION, SECRETION AND ANTISENSE
;
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LADAS & PARRY
; STREET: 26 WEST 61 STREET
; CITY: NEW YORK
; STATE: NY
; COUNTRY: USA
; ZIP: 10023
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3-1/4" Disk 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Microsoft Windows for Workgroups 3.11
; SOFTWARE: WordPerfect 8 for Windows
; CURRENT APPLICATION DATA:
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;
; APPLICATION NUMBER: US/09/631,022
; FILING DATE: 02-Aug-2000
; CLASSIFICATION: 536
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/171,337
; FILING DATE: 14-MAY-1999
; APPLICATION NUMBER: PCT/ES98/00056
; FILING DATE: 5-MAR-1998
; APPLICATION NUMBER: ES9700482
; FILING DATE: 5-MAR-1997
;
; ATTORNEY/AGENT INFORMATION:
; NAME: MASS, Clifford J.
; REGISTRATION NUMBER: 30,086
; (C) REF./DOCKET NO.: U-02886-6
;
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 233288
;
; INFORMATION FOR SEQ ID NO: 6
; SEQUENCE CHARACTERISTICS:
; LENGTH: 596 amino acids
; TYPE: amino acids
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: Penicillium chrysogenum
; FEATURE:
; OTHER INFORMATION: amino acid sequence of the -N-
; acetylhexosaminidase enzyme
; (EC.3.2.1.52) with a
; molecular weight of 66545 Da.
;
; SEQUENCE DESCRIPTION: SEQ ID NO: 6
US-09-631-022-6
Query Match 50.7%; Score 37.5; DB 2; Length 596;
Best Local Similarity 81.8%; Pred. No. 1.2e+02;
Matches 9; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

Qy 4 GWALSKIN-LH 13
Db 202 GWALSKLVNH 212

RESULT 33
US-09-830-807-7
; Sequence 7, Application US/09830807
; Patent No. 6846667
;
; GENERAL INFORMATION:
; APPLICANT: Crooke, Helen R.
; APPLICANT: Clarke, Enda E.
; APPLICANT: Everest, Paul H.
; APPLICANT: Dougan, Gordon
; APPLICANT: Holden, David W.
; APPLICANT: Shea, Jacqueline E.
; APPLICANT: Feldman, Robert G.
;
; TITLE OF INVENTION: VIRULENCE GENES AND PROTEINS, AND THEIR USE
;
; FILE REFERENCE: GJE-65
;
; CURRENT APPLICATION NUMBER: US/09/830,807
; CURRENT FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Escherichia coli
;
; US-09-830-807-7
Query Match 50.0%; Score 37; DB 2; Length 42;
Best Local Similarity 62.5%; Pred. No. 7.2;
Matches 10; Conservative 0; Mismatches 2; Indels 4; Gaps 1;

Qy 2 GYGWALS----KINLH 13
Db 16 GVGAALSKLVNH 31
```

```

; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6509
; LENGTH: 217
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6509

Query Match      50.0%; Score 37; DB 2; Length 217;
Best Local Similarity 50.0%; Pred. No. 47;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY      2 GYGMALSKINLH 13
      |||: |||:
Db      77 GYGLPSSFNMH 88

RESULT 37
US-09-949-016-9719
; Sequence 9719, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al. POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9719
; LENGTH: 228
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9719

Query Match      50.0%; Score 37; DB 2; Length 228;
Best Local Similarity 50.0%; Pred. No. 49;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY      2 GYGMALSKINLH 13
      |||: |||:
Db      88 GYGLPSSFNMH 99

RESULT 38
US-09-134-000C-6538
; Sequence 6538, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; PRIOR FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6538
; LENGTH: 618
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-6538

Query Match      50.0%; Score 37; DB 2; Length 618;

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```

; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6509
; LENGTH: 217
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6509

Query Match      50.0%; Score 37; DB 2; Length 217;
Best Local Similarity 50.0%; Pred. No. 47;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY      2 GYGMALSKINLH 13
      |||: |||:
Db      77 GYGLPSSFNMH 88

RESULT 37
US-09-949-016-9719
; Sequence 9719, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al. POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9719
; LENGTH: 228
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9719

Query Match      50.0%; Score 37; DB 2; Length 228;
Best Local Similarity 50.0%; Pred. No. 49;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY      2 GYGMALSKINLH 13
      |||: |||:
Db      88 GYGLPSSFNMH 99

RESULT 38
US-09-134-000C-6538
; Sequence 6538, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; PRIOR FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6538
; LENGTH: 618
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-6538

Query Match      50.0%; Score 37; DB 2; Length 618;

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; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6509
; LENGTH: 217
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6509

Query Match      50.0%; Score 37; DB 2; Length 217;
Best Local Similarity 50.0%; Pred. No. 47;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY      2 GYGMALSKINLH 13
      |||: |||:
Db      77 GYGLPSSFNMH 88

RESULT 37
US-09-949-016-9719
; Sequence 9719, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al. POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9719
; LENGTH: 228
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9719

Query Match      50.0%; Score 37; DB 2; Length 228;
Best Local Similarity 50.0%; Pred. No. 49;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY      2 GYGMALSKINLH 13
      |||: |||:
Db      88 GYGLPSSFNMH 99

RESULT 38
US-09-134-000C-6538
; Sequence 6538, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; PRIOR FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6538
; LENGTH: 618
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-6538

Query Match      50.0%; Score 37; DB 2; Length 618;

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Db 142 VGFGEAISKQFVDALETGQDARAAMNLHN 170

Search completed: May 13, 2006, 08:15:31
Job time : 48 secs

Best Local Similarity 53.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 GYGMALSKINLHN 14
Db 389 GYGYMLYSVNLKN 401

RESULT 39
US-09-949-016-6354
; Sequence 6354, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6354
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6354

Query Match 49.3%; Score 36.5; DB 2; Length 351;
Best Local Similarity 31.0%; Pred. No. 1e+02;
Matches 9; Conservative 4; Mismatches 1; Indels 15; Gaps 1;

QY 1 MGYGMALSK-----INLHN 14
Db 136 VGFGEAISKQFVDALETGQDARAAMNLHN 164

RESULT 40
US-09-949-016-7724
; Sequence 7724, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7724
; LENGTH: 357
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7724

Query Match 49.3%; Score 36.5; DB 2; Length 357;
Best Local Similarity 31.0%; Pred. No. 1e+02;
Matches 9; Conservative 4; Mismatches 1; Indels 15; Gaps 1;

QY 1 MGYGMALSK-----INLHN 14

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GenCore version 5.1.8
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OM protein - protein search, using sw model

Run on: May 13, 2006, 08:06:48 ; Search time 185 Seconds
(without alignments)
33.250 Million cell updates/sec

Title: US-10-769-514-17

Perfect score: 74

Sequence: 1 MGYGMALSKINLEN 14

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

A Geneseq_21.*

1: Geneseqp1980s.*

2: Geneseqp1990s.*

3: Geneseqp2000s.*

4: Geneseqp2001s.*

5: Geneseqp2002s.*

6: Geneseqp2003as.*

7: Geneseqp2003bs.*

8: Geneseqp2004s.*

9: Geneseqp2005s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	74	100.0	14	ADV70480	Adv70480 Moraxella
2	74	100.0	15	ADV70478	Adv70478 Moraxella
3	74	100.0	15	ADV70479	Adv70479 Moraxella
4	74	100.0	702	AAW35313	Aaw35313 M. catarr
5	74	100.0	702	AAV43383	Aav43383 M. catarr
6	65	87.8	706	AAV43378	Aav43378 M. catarr
7	63	85.1	714	AAW35316	Aaw35316 M. catarr
8	46	62.2	190	ABM69725	Abm69725 Photorhab
9	42	56.8	635	ADI36920	Adi36920 Human LRR
10	42	56.8	695	AAV94963	Aav94963 Human sec
11	42	56.8	696	AAV08076	Aav08076 Human PRO
12	42	56.8	696	AAV13359	Aav13359 Amino aci
13	42	56.8	696	AAV70671	Aav70671 Human PRO
14	42	56.8	696	ADC78411	Adc78411 Human PRO
15	42	56.8	696	AAAB80227	Aab80227 Human PRO
16	42	56.8	696	AAU00824	Aau00824 Human imm
17	42	56.8	696	AAU12348	Aau12348 Human PRO
18	42	56.8	696	AAAB50905	Aab50905 Human PRO
19	42	56.8	696	ABU71605	Abu71605 Human PRO
20	42	56.8	696	ABO17792	Abu17792 Novel hum
21	42	56.8	696	ABU71460	Abu71460 Human PRO
22	42	56.8	696	ABU81046	Abu81046 Human PRO
23	42	56.8	696	ABU71906	Abu71906 Human sec
24	42	56.8	696	ABO01789	Abu01789 Novel hum

Abu66746	Human PRO	6	ABU66746	696	56.8	42
Abu54362	Human sec	6	ABU54362	696	56.8	42
Abu47377	Human sec	6	ABO47377	696	56.8	42
Abu59827	Novel sec	6	ABU59827	696	56.8	42
Abu25017	Human sec	6	ABO25017	696	56.8	42
Abu64514	Human sec	6	ABU64514	696	56.8	42
Abu67360	Human sec	6	ABU67360	696	56.8	42
Abu14880	Human sec	6	ABO14880	696	56.8	42
Abu67022	Human sec	6	ABU67022	696	56.8	42
Abu69637	Novel hum	6	ABU69637	696	56.8	42
Abu14819	Human sec	6	ABO14819	696	56.8	42
Ada45873	Novel hum	6	ADA45873	696	56.8	42
Ada76304	Human PRO	6	ADA76304	696	56.8	42
ADB29296	Human sec	6	ADB29296	696	56.8	42
Ada18954	Human PRO	6	ADA18954	696	56.8	42
Ada61577	Homo sapi	6	ADA61577	696	56.8	42
Adb19362	Novel hum	6	ADB19362	696	56.8	42
Adb27903	Human PRO	6	ADB27903	696	56.8	42
Ada86382	Novel hum	6	ADA86382	696	56.8	42
Adb15946	Human PRO	6	ADB15946	696	56.8	42
Ada47732	Human PRO	6	ADA47732	696	56.8	42
Ada18152	Human sec	6	ADA18152	696	56.8	42
Abu32771	Human sec	6	ABO32771	696	56.8	42
Ada67527	Human PRO	6	ADA67527	696	56.8	42
Adb30534	Human PRO	6	ADB30534	696	56.8	42
Ada85830	Novel hum	6	ADA85830	696	56.8	42
Ada97042	Human PRO	6	ADA97042	696	56.8	42
Ada79346	Human PRO	6	ADA79346	696	56.8	42
Ada87485	Novel hum	6	ADA87485	696	56.8	42
Adb16687	Human PRO	6	ADB16687	696	56.8	42
Abu34831	Human PRO	6	ABO34831	696	56.8	42
Ada16127	Human sec	6	ADA16127	696	56.8	42
Ada91779	Novel hum	6	ADA91779	696	56.8	42
Adb14842	Human PRO	6	ADB14842	696	56.8	42
Adb18803	Novel hum	6	ADB18803	696	56.8	42
Ada94018	Human PRO	6	ADA94018	696	56.8	42
Adb19914	Novel hum	6	ADB19914	696	56.8	42
Abu43325	Novel hum	6	ABO43325	696	56.8	42
Abu4480	Human PRO	6	ADA4480	696	56.8	42
Ada42272	Human sec	6	ADA42272	696	56.8	42
Adb24713	Human PRO	6	ADB24713	696	56.8	42
Ada82237	Human PRO	6	ADA82237	696	56.8	42
Ada75200	Human PRO	6	ADA75200	696	56.8	42
Ada85278	Novel hum	6	ADA85278	696	56.8	42
Ada84726	Novel hum	6	ADA84726	696	56.8	42
Abu17509	Human PRO	6	ABO17509	696	56.8	42
Adb29982	Human PRO	6	ADB29982	696	56.8	42
Ada80510	Human PRO	6	ADA80510	696	56.8	42
Ada75752	Human PRO	6	ADA75752	696	56.8	42
Ada46977	Human PRO	6	ADA46977	696	56.8	42
Adb25273	Human PRO	6	ADB25273	696	56.8	42
Ada93449	Human PRO	6	ADA93449	696	56.8	42
Adb26799	Human PRO	6	ADB26799	696	56.8	42
Adb31086	Human PRO	6	ADB31086	696	56.8	42
Ada61014	Homo sapi	6	ADA61014	696	56.8	42
Adb24161	Human PRO	6	ADB24161	696	56.8	42
Ada96490	Human PRO	6	ADA96490	696	56.8	42
Ada81062	Human PRO	6	ADA81062	696	56.8	42
Ada95938	Human PRO	6	ADA95938	696	56.8	42
Adb26247	Human PRO	6	ADB26247	696	56.8	42
Adb21732	Novel hum	6	ADB21732	696	56.8	42
Ada77511	Human PRO	7	ADA77511	696	56.8	42
Adb18251	Human PRO	7	ADB18251	696	56.8	42
Ada86934	Human sec	7	ADA86934	696	56.8	42
Ada16551	Human sec	7	ADA16551	696	56.8	42
Ada12980	Human sec	7	ADA12980	696	56.8	42
Ada41848	Human sec	7	ADA41848	696	56.8	42
Ada88037	Novel hum	7	ADA88037	696	56.8	42
Ada46425	Novel hum	7	ADA46425	696	56.8	42
Ada17195	Human sec	7	ADA17195	696	56.8	42
Ada42698	Human sec	7	ADA42698	696	56.8	42
Adb28455	Human PRO	7	ADB28455	696	56.8	42

98 42 56.8 696 7 ADB29007 Adb29007 Human PRO
99 42 56.8 696 7 ADA76959 Ada76959 Human PRO
100 42 56.8 696 7 ADA88589 Ada88589 Novel hum

ALIGNMENTS

RESULT 1

ADV70480
ID ADV70480 standard; peptide; 14 AA.

XX AC ADV70480;
XX DT 10-MAR-2005 (first entry)
XX DE Moraxella catarrhalis transferrin binding protein B region - SEQ ID 17.
XX KW bacterial infection; antibacterial; bacterial meningitis; antibacterial;
XX KW neuroprotective; otitis media; auditory; transferrin binding protein B.
XX CS Moraxella catarrhalis.
XX PN US2004258695-A1.
XX PD 23-DEC-2004.
XX PF 30-JAN-2004; 2004US-00769514.
XX PR 31-JAN-2003; 2003US-0444113P.
XX PA (SCHR/) SCHRYVERS A B.
XX PI Schryvers AB;
XX DR WPI; 2005-038740/04.
XX CC The invention comprises a molecule (e.g. peptide) which is capable of:
binding to a region of a transferrin protein that is recognized by a
bacterial transferrin binding protein; and eliciting an antibody to the
bacterial transferrin binding protein. The transferrin binding molecule
of the invention is useful for preventing and treating bacterial
infections (e.g. bacterial meningitis and otitis media). The present
amino acid sequence represents a region of the Moraxella catarrhalis
transferrin binding protein B.

XX Query Match 100.0%; Score 74; DB 9; Length 14;
XX Best Local Similarity 100.0%; Pred. No. 5.9e-07;
XX Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGYGMALSKINLHN 14
DB 1 MGYGMALSKINLHN 14
RESULT 2
ADV70478
ID ADV70478 standard; peptide; 15 AA.
XX AC ADV70478;
XX DT 10-MAR-2005 (first entry)
XX DE Moraxella catarrhalis transferrin binding protein B region - SEQ ID 15.
XX KW bacterial infection; antibacterial; bacterial meningitis; antibacterial;
XX KW neuroprotective; otitis media; auditory; transferrin binding protein B.
XX CS Moraxella catarrhalis.
XX PN US2004258695-A1.
XX PD 23-DEC-2004.
XX PF 30-JAN-2004; 2004US-00769514.
XX PR 31-JAN-2003; 2003US-0444113P.
XX PA (SCHR/) SCHRYVERS A B.
XX PI Schryvers AB;
XX DR WPI; 2005-038740/04.
XX CC The invention comprises a molecule (e.g. peptide) which is capable of:
binding to a region of a transferrin protein that is recognized by a
bacterial transferrin binding protein; and eliciting an antibody to the
bacterial transferrin binding protein. The transferrin binding molecule
of the invention is useful for preventing and treating bacterial
infections (e.g. bacterial meningitis and otitis media). The present
amino acid sequence represents a region of the Moraxella catarrhalis
transferrin binding protein B.

XX Query Match 100.0%; Score 74; DB 9; Length 14;
XX Best Local Similarity 100.0%; Pred. No. 5.9e-07;
XX Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGYGMALSKINLHN 14
DB 1 MGYGMALSKINLHN 14
RESULT 3
ADV70479
ID ADV70479 standard; peptide; 15 AA.
XX AC ADV70479;
XX DT 10-MAR-2005 (first entry)
XX DE Moraxella catarrhalis transferrin binding protein B region - SEQ ID 16.
XX KW bacterial infection; antibacterial; bacterial meningitis; antibacterial;
XX KW neuroprotective; otitis media; auditory; transferrin binding protein B.
XX CS Moraxella catarrhalis.
XX PN US2004258695-A1.
XX PD 23-DEC-2004.
XX PF 30-JAN-2004; 2004US-00769514.
XX PR 31-JAN-2003; 2003US-0444113P.
XX PA (SCHR/) SCHRYVERS A B.
XX PI Schryvers AB;
XX DR WPI; 2005-038740/04.

KW bacterial infection; antibacterial; bacterial meningitis; antibacterial;
KW neuroprotective; otitis media; auditory; transferrin binding protein B.
XX OS Moraxella catarrhalis.
XX PN US2004258695-A1.
XX PD 23-DEC-2004.
XX PF 30-JAN-2004; 2004US-00769514.
XX PR 31-JAN-2003; 2003US-0444113P.
XX PA (SCHR/) SCHRYVERS A B.
XX PI Schryvers AB;
XX DR WPI; 2005-038740/04.
XX CC The invention comprises a molecule (e.g. peptide) which is capable of:
binding to a region of a transferrin protein that is recognized by a
bacterial transferrin binding protein; and eliciting an antibody to the
bacterial transferrin binding protein. The transferrin binding molecule
of the invention is useful for preventing and treating bacterial
infections (e.g. bacterial meningitis and otitis media). The present
amino acid sequence represents a region of the Moraxella catarrhalis
transferrin binding protein B.

XX Query Match 100.0%; Score 74; DB 9; Length 15;
XX Best Local Similarity 100.0%; Pred. No. 6.4e-07;
XX Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGYGMALSKINLHN 14
DB 1 MGYGMALSKINLHN 14
RESULT 3
ADV70479
ID ADV70479 standard; peptide; 15 AA.
XX AC ADV70479;
XX DT 10-MAR-2005 (first entry)
XX DE Moraxella catarrhalis transferrin binding protein B region - SEQ ID 16.
XX KW bacterial infection; antibacterial; bacterial meningitis; antibacterial;
XX KW neuroprotective; otitis media; auditory; transferrin binding protein B.
XX CS Moraxella catarrhalis.
XX PN US2004258695-A1.
XX PD 23-DEC-2004.
XX PF 30-JAN-2004; 2004US-00769514.
XX PR 31-JAN-2003; 2003US-0444113P.
XX PA (SCHR/) SCHRYVERS A B.
XX PI Schryvers AB;
XX DR WPI; 2005-038740/04.
XX CC The invention comprises a molecule (e.g. peptide) which is capable of:
binding to a region of a transferrin protein that is recognized by a
bacterial transferrin binding protein; and eliciting an antibody to the
bacterial transferrin binding protein. The transferrin binding molecule
of the invention is useful for preventing and treating bacterial
infections (e.g. bacterial meningitis and otitis media). The present
amino acid sequence represents a region of the Moraxella catarrhalis
transferrin binding protein B.

XX Query Match 100.0%; Score 74; DB 9; Length 15;
XX Best Local Similarity 100.0%; Pred. No. 6.4e-07;
XX Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGYGMALSKINLHN 14
DB 1 MGYGMALSKINLHN 14
RESULT 3
ADV70479
ID ADV70479 standard; peptide; 15 AA.
XX AC ADV70479;
XX DT 10-MAR-2005 (first entry)
XX DE Moraxella catarrhalis transferrin binding protein B region - SEQ ID 16.
XX KW bacterial infection; antibacterial; bacterial meningitis; antibacterial;
XX KW neuroprotective; otitis media; auditory; transferrin binding protein B.
XX CS Moraxella catarrhalis.
XX PN US2004258695-A1.
XX PD 23-DEC-2004.
XX PF 30-JAN-2004; 2004US-00769514.
XX PR 31-JAN-2003; 2003US-0444113P.
XX PA (SCHR/) SCHRYVERS A B.
XX PI Schryvers AB;
XX DR WPI; 2005-038740/04.
XX CC The invention comprises a molecule (e.g. peptide) which is capable of:
binding to a region of a transferrin protein that is recognized by a
bacterial transferrin binding protein; and eliciting an antibody to the
bacterial transferrin binding protein. The transferrin binding molecule
of the invention is useful for preventing and treating bacterial
infections (e.g. bacterial meningitis and otitis media). The present
amino acid sequence represents a region of the Moraxella catarrhalis
transferrin binding protein B.

XX Query Match 100.0%; Score 74; DB 9; Length 15;
XX Best Local Similarity 100.0%; Pred. No. 6.4e-07;
XX Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGYGMALSKINLHN 14
DB 1 MGYGMALSKINLHN 14
RESULT 3
ADV70479
ID ADV70479 standard; peptide; 15 AA.
XX AC ADV70479;
XX DT 10-MAR-2005 (first entry)
XX DE Moraxella catarrhalis transferrin binding protein B region - SEQ ID 16.
XX KW bacterial infection; antibacterial; bacterial meningitis; antibacterial;
XX KW neuroprotective; otitis media; auditory; transferrin binding protein B.
XX CS Moraxella catarrhalis.
XX PN US2004258695-A1.
XX PD 23-DEC-2004.
XX PF 30-JAN-2004; 2004US-00769514.
XX PR 31-JAN-2003; 2003US-0444113P.
XX PA (SCHR/) SCHRYVERS A B.
XX PI Schryvers AB;
XX DR WPI; 2005-038740/04.

XX Query Match 100.0%; Score 74; DB 9; Length 15;
XX Best Local Similarity 100.0%; Pred. No. 6.4e-07;
XX Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGYGMALSKINLHN 14
DB 1 MGYGMALSKINLHN 14
RESULT 3
ADV70479
ID ADV70479 standard; peptide; 15 AA.
XX AC ADV70479;
XX DT 10-MAR-2005 (first entry)
XX DE Moraxella catarrhalis transferrin binding protein B region - SEQ ID 16.
XX KW bacterial infection; antibacterial; bacterial meningitis; antibacterial;
XX KW neuroprotective; otitis media; auditory; transferrin binding protein B.
XX CS Moraxella catarrhalis.
XX PN US2004258695-A1.
XX PD 23-DEC-2004.
XX PF 30-JAN-2004; 2004US-00769514.
XX PR 31-JAN-2003; 2003US-0444113P.
XX PA (SCHR/) SCHRYVERS A B.
XX PI Schryvers AB;
XX DR WPI; 2005-038740/04.

XX Query Match 100.0%; Score 74; DB 9; Length 15;
XX Best Local Similarity 100.0%; Pred. No. 6.4e-07;
XX Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGYGMALSKINLHN 14
DB 1 MGYGMALSKINLHN 14
RESULT 3
ADV70479
ID ADV70479 standard; peptide; 15 AA.
XX AC ADV70479;
XX DT 10-MAR-2005 (first entry)
XX DE Moraxella catarrhalis transferrin binding protein B region - SEQ ID 16.
XX KW bacterial infection; antibacterial; bacterial meningitis; antibacterial;
XX KW neuroprotective; otitis media; auditory; transferrin binding protein B.
XX CS Moraxella catarrhalis.
XX PN US2004258695-A1.
XX PD 23-DEC-2004.
XX PF 30-JAN-2004; 2004US-00769514.
XX PR 31-JAN-2003; 2003US-0444113P.
XX PA (SCHR/) SCHRYVERS A B.
XX PI Schryvers AB;
XX DR WPI; 2005-038740/04.

XX Transferrin-binding molecules useful for eliciting antibodies to
PT bacterial transferrin binding proteins, which block bacterial transferrin
PT uptake.
XX Example 1; SEQ ID NO 16; 27pp; English.
XX The invention comprises a molecule (e.g. peptide) which is capable of:
CC binding to a region of a transferrin protein that is recognized by a
CC bacterial transferrin binding protein; and eliciting an antibody to a
CC bacterial transferrin binding protein. The transferrin binding molecule
CC of the invention is useful for preventing and treating bacterial
CC infections (e.g. bacterial meningitis and otitis media). The present
CC amino acid sequence represents a region of the Moraxella catarrhalis
CC transferrin binding protein B.
XX
XX SQ Sequence 15 AA;
Query Match 100.0%; Score 74; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 6.4e-07;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGYGWSKINLHN 14
| | | | | | | | | | | | | |
DB 2 MGYGWSKINLHN 15
| | | | | | | | | | | | | |
RESULT 4
AAW35313
ID AAW35313 standard; protein; 702 AA.
XX
AC AAW35313;
XX
XX 14-APR-1998 (first entry)
XX
XX M. catarrhalis 4223 transferrin binding protein tbpB.
XX Transferrin binding protein; tbpB; immunogen; vaccine; protection;
XX otitis media; antibody; diagnosis; therapy; carrier; gene isolation.
XX
XX Moraxella catarrhalis.
XX
XX WO9732980-A1.
XX
XX 12-SEP-1997.
XX
XX 07-MAR-1997; 97WO-CA000163.
XX
XX 08-MAR-1996; 96US-00613009.
XX
XX 03-JAN-1997; 97US-00778570.
XX
XX (CONN-) CONNAUGHT LAB LTD.
XX
XX Myers LE, Schryvers AB, Harkness RE, Loosmore SM, Du R, Yang Y;
XX Klein MH;
XX WPI; 1997-457533/42.
XX N-PSDB; AAT95248.
XX
XX DNA encoding transferrin receptor of a Moraxella strain - also proteins,
XX useful in vaccines, as diagnostic agents and in the production of
XX antibodies.
XX
XX Claim 6; Fig 6; 162pp; English.
XX
XX The present sequence is the Moraxella catarrhalis 4223 transferrin
XX binding protein tbpB, which can be used as an immunogen, e.g. in vaccines
XX to protect against diseases caused by M. catarrhalis (specifically otitis
XX media), or to raise antibodies for diagnosis and therapy. It can also be
XX used as a carrier for other antigenic determinants, e.g. of bacteria
XX containing polysaccharide antigens or abnormal polysaccharides present on
XX tumour cells, particularly to make conjugate vaccines. The tbpB DNA can
XX be used to detect nucleic acid encoding transferrin receptor protein,

CC e.g. for diagnosis or gene isolation, by usual hybridisation assays
XX
XX SQ Sequence 702 AA;
Query Match 100.0%; Score 74; DB 2; Length 702;
Best Local Similarity 100.0%; Pred. No. 5.2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGYGWSKINLHN 14
| | | | | | | | | | | | | |
DB 100 MGYGWSKINLHN 113
| | | | | | | | | | | | | |
RESULT 5
AAW43383
ID AAW43383 standard; protein; 702 AA.
XX
AC AAW43383;
XX
XX 26-JAN-2000 (first entry)
XX
XX M. catarrhalis strain 4223 tbp2 protein.
XX Tbp2 gene; Tbp2; transferrin binding protein; diagnosis; otitis media;
XX genetic immunisation; Moraxella infection; antigen; vaccine; detection;
XX antitumour antibody production; therapy.
XX
XX Moraxella catarrhalis.
XX
XX WO9952947-A2.
XX
XX 21-OCT-1999.
XX
XX 12-APR-1999; 99WO-CA000307.
XX
XX 14-APR-1998; 98US-00059584.
XX
XX (CONN-) CONNAUGHT LAB LTD.
XX
XX Myers LE, Schryvers AB, Harkness RE, Loosmore SM, Du R, Yang Y;
XX Klein MH;
XX WPI; 1999-620376/53.
XX N-PSDB; AAZ31949.
XX
XX Nucleic acid encoding transferrin binding protein 2 of Moraxella
XX catarrhalis, useful for diagnostics, immunization and recombinant protein
XX production.
XX
XX Example 6; Fig 8; 114pp; English.
XX
XX This sequence is the Moraxella catarrhalis strain 4223 transferrin
XX binding protein (Tbp2) of the invention. The DNA sequence is also
XX referred to as the Tbp2 gene. The Tbp2 gene is used to produce
XX recombinant Tbp2; for identification or diagnosis of Moraxella, or for
XX cloning related species, using hybridisation assays; and for genetic
XX immunisation against Moraxella infections, e.g. otitis media. The Tbp2
XX proteins are useful as antigens, either in vaccines (including components
XX of conjugate vaccines that contain antigens from other bacteria or from
XX tumours, in which case they elicit production of antitumour antibodies
XX that may be coupled to chemotherapeutic agents or biologically active
XX agents) or to raise antibodies (for use as diagnostic reagents and for
XX treating Moraxella infections), also for detecting Moraxella antibodies
XX
XX SQ Sequence 702 AA;
Query Match 100.0%; Score 74; DB 2; Length 702;
Best Local Similarity 100.0%; Pred. No. 5.2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGYGWSKINLHN 14
| | | | | | | | | | | | | |
DB 100 MGYGWSKINLHN 113
| | | | | | | | | | | | | |

XX	Transferrin binding protein; tbpB; immunogen; vaccine; protection;
KW	otitis media; antibody; diagnosis; therapy; carrier; gene isolation.
XX	Moraxella catarrhalis.
OS	
XX	WO9732980-A1.
PN	
XX	12-SEP-1997.
PD	
XX	07-MAR-1997; 97WO-CA000163.
XX	
PF	
XX	08-MAR-1996; 96US-00613009.
PR	
XX	03-JAN-1997; 97US-00778570.
PR	
XX	(CONN-) CONNAUGHT LAB LTD.
PA	
XX	Myers LE, Schryvers AB, Harkness RE, Loosmore SM, Du R, Yang Y;
PI	Klein MH;
PI	
XX	WPI; 1997-457533/42.
XX	N-PSDB; AAT95251.
DR	
DR	
XX	DNA encoding transferrin receptor of a Moraxella strain - also proteins,
XX	useful in vaccines, as diagnostic agents and in the production of
PT	antibodies.
PT	
XX	Claim 6; Fig 27; 162pp; English.
PS	
XX	The present sequence is the Moraxella catarrhalis R1 transferrin binding
CC	protein tpbP, which can be used as an immunogen, e.g. in vaccines to
CC	protect against diseases caused by M. catarrhalis (specifically otitis
CC	media), or to raise antibodies for diagnosis and therapy. It can also be
CC	used as a carrier for other antigenic determinants, e.g. of bacteria
CC	containing polysaccharide antigens or abnormal polysaccharides present on
CC	tumour cells, particularly to make conjugate vaccines. The tpbP DNA can
CC	be used to detect nucleic acid encoding transferrin receptor protein,
CC	e.g. for diagnosis or gene isolation, by usual hybridisation assays
XX	
SQ	Sequence 714 AA;
	Query Match 85.1%; Score 63; DB 2; Length 714;
	Best Local Similarity 85.7%; Pred. No. 0.0067;
	Matches 12; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
OY	1 MGYGMALSKINLH 14
Db	100 MGYGMALSKINLYD 113
	: :
RESULT 8	
ABM69725	
ID	ABM69725 standard; protein; 190 AA.
XX	
AC	ABM69725;
XX	
DT	20-NOV-2003 (first entry)
XX	
DE	Photorhabdus luminescens protein sequence #2822.
XX	
KW	Antibacterial; fungicide; insecticide; polymorphism; genetic analysis;
KW	detection; food; gene expression; plant; animal; microorganism; toxin;
KW	antibiotic; biopesticide; virulence factor; disease model; plague;
KW	whooping cough.
XX	
OS	Photorhabdus luminescens.
XX	
ID	WO200294867-A2.
PN	
XX	
PD	28-NOV-2002.
XX	
PF	07-FEB-2002; 2002WO-IB003040.
XX	

KW antidiabetic; antiasthmatic; antiarthritic; antirheumatic; protozoacide;
 KW antithyroid; immune deficiency; severe combined immunodeficiency; SCID;
 KW infection; HIV; hepatitis; malaria; autoimmune disorder; systemic lupus;
 KW connective tissue disease; multiple sclerosis; erythematosis;
 KW rheumatoid arthritis; autoimmune pulmonary inflammation; asthma;
 KW Guillain-Barre syndrome; autoimmune thyroiditis; myasthenia gravis;
 KW insulin dependent diabetes mellitus; graft-versus-host-disease;
 KW autoimmune inflammatory eye disease; allergy.
 XX
 OS Homo sapiens.
 XX
 PN WO200009552-A1.
 XX
 PD 24-FEB-2000.
 XX
 XX 13-AUG-1999; 99WO-US018298.
 XX
 PR 14-AUG-1998; 98US-0096622P.
 PR 17-AUG-1998; 98US-0096815P.
 PR 04-SEP-1998; 98US-0099229P.
 PR 23-OCT-1998; 98US-0105368P.
 PR 08-JAN-1999; 98US-0115234P.
 PR 12-FEB-1999; 98US-0119311P.
 PR 18-FEB-1999; 98US-0120575P.
 PR 30-APR-1999; 99US-0132020P.
 PR 11-AUG-1999; 99US-0148424P.
 XX
 PA (GEMY) GENETICS INST INC.
 XX
 PI Jacobs K, McCoy JM, Lavallie ER, Collins-Racie LA, Evans C;
 PI Merberg D, Treacy M, Agostino MJ, Steininger RJ, Spaulding V;
 PI Wong GG, Clark HF, Fachtel K;
 XX
 XX WPI; 2000-205979/18.
 XX
 PT New polynucleotides encoding secreted proteins, which may have e.g.
 PT nutritional, chemokine, immune stimulating or suppressing, hematopoiesis
 PT regulating, tissue growth, activin/inhibin antiinflammatory or tumor
 PT inhibition activity.
 XX
 XX Claim 141; Page 592-594; 641pp; English.
 PS
 CC AAA16618 to AAA16697 encode the human secreted proteins given in AAY94898
 CC to AA194980, isolated from human adult brain, adult thyroid, adult
 CC retina, foetal carcinoma, adult blood, adult neural, foetal kidney, adult
 CC placenta, adult testis, whole embryo, adult cartilage, kidney, foetal
 CC brain, adult thymus, foetal placenta, adult uterus, adult tumour, and
 CC adult bladder, cDNA libraries. The polynucleotides and proteins are
 CC predicted to have biological activities which would make them suitable
 CC for treating, preventing or ameliorating medical conditions in humans and
 CC animals. The polynucleotides can be used as markers for tissues in which
 CC the protein is preferentially expressed, as molecular weight markers on
 CC Southern gels, and as chromosome markers or tags to identify chromosomes
 CC or to map gene positions. The proteins can be used in the treatment of
 CC immune deficiencies and disorders, such as severe combined
 CC immunodeficiency (SCID), as well as viral, bacterial, fungal and other
 CC infections. These infections include human immunodeficiency virus (HIV),
 CC hepatitis, herpesviruses, mycobacteria, Leishmania spp., malaria and
 CC candidiasis. The proteins can be used to treat autoimmune disorders such
 CC as connective tissue disease, multiple sclerosis, systemic lupus
 CC erythematosus, rheumatoid arthritis, autoimmune pulmonary inflammation,
 CC Guillain-Barre syndrome, autoimmune thyroiditis, insulin dependent
 CC diabetes mellitus, myasthenia gravis, graft-versus-host-disease and
 CC autoimmune inflammatory eye disease. The proteins can also be used to
 CC treat allergic conditions, such as asthma. AAA16698 to AAA16774 represent
 CC probes for the human secreted proteins from the present invention
 XX
 SQ Sequence 695 AA;

Query Match 56.8%; Score 42; DB 3; Length 695;
 Best Local Similarity 63.6%; Pred. No. 67;
 Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMA1SKINLHN 14
 Db ||:||||:|
 492 GVSLSKLSLHN 502
 RESULT 11
 AAY08076
 ID AAY08076 standard; protein; 696 AA.
 XX
 AC AAY08076;
 XX
 DT 11-SEP-2000 (first entry)
 XX
 DE Human PRO266 clone UNQ233 derived protein.
 XX
 KW Inflammatory cell infiltration; immune response; T cell proliferation;
 KW anti-inflammatory; anti-autoimmune; anti-diabetic; spondyloarthropathy;
 KW T cell-mediated disease; spondyloarthropathy; sclerosis; renal disease;
 KW inflammatory myopathy; hemolytic anemia; thrombocytopenia; thyroiditis;
 KW diabetes mellitus; demyelinating polyneuropathy; Guillain-Barre syndrome;
 KW multiple sclerosis; polynuropathy; hepatitis; cirrhosis; enteropathy;
 KW sclerosing cholangitis; inflammatory bowel disease; Whipple's disease;
 KW skin disease; dermatitis; psoriasis; asthma; allergic rhinitis; tumor;
 KW food hypersensitivity; urticaria; eosinophilic pneumonia; transplant;
 KW idiopathic pulmonary fibrosis; graft rejection; PRO245; human; PRO266;
 UNQ233.
 XX
 OS Homo sapiens.
 XX
 PN WO9914241-A2.
 XX
 PD 25-MAR-1999.
 XX
 XX 17-SEP-1998; 98WO-US019437.
 XX
 PR 17-SEP-1997; 97US-0059119P.
 PR 18-SEP-1997; 97US-0059263P.
 PR 28-OCT-1997; 97US-0063550P.
 PR 12-NOV-1997; 97US-0065186P.
 PR 21-NOV-1997; 97US-0066364P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 04-JUN-1998; 98US-0088026P.
 XX
 XX (GETH) GENENTECH INC.
 XX
 PA Pong S, Goddard A, Gurney AL, Tumas D, Wood WI;
 PI
 PI WPI; 1999-229499/19.
 DR N-PSDB; AAX37722.
 XX
 XX Composition containing novel polypeptide PRO245, its agonist or
 PT antagonist.
 PT
 XX Example 1; Fig 21; 177pp; English.
 XX
 CC This invention describes a novel composition containing (apart from a
 CC carrier or excipient), a novel PRO245 polypeptide (I), its agonist or
 CC antagonist, or their fragments, for modulating: (i) infiltration of
 CC inflammatory cells into tissue; (ii) an immune response; or (iii) T cell
 CC proliferation. The products of the invention have anti-inflammatory, anti-
 CC (i)-(iii). The products of the invention have anti-inflammatory, anti-
 CC autoimmune and anti-diabetic activity. (I), and its (ant)agonists and
 CC their fragments are used to treat immune-related diseases, particularly
 CC T cell-mediated diseases. The diseases treated include systemic lupus
 CC erythematosus, rheumatoid arthritis, juvenile chronic arthritis,
 CC inflammatory myopathies (dermatomyositis, polymyositis), idiopathic
 CC spondyloarthropathies, systemic sclerosis (scleroderma), Sjogren's
 CC syndrome, systemic vasculitis, sarcoidosis, autoimmune hemolytic anemia
 CC (immune pancytopenia, paroxysmal nocturnal hemoglobinuria), autoimmune
 CC thrombocytopenia (idiopathic thrombocytopenic purpura immune-mediated
 CC thrombocytopenia), thyroiditis (Grave's disease, Hashimoto's thyroiditis,
 CC juvenile lymphocytic thyroiditis, atrophic thyroiditis), diabetes
 CC mellitus, immune-mediated renal disease (glomerulonephritis,

CC tubulointerstitial nephritis), multiple sclerosis, idiopathic
CC demyelinating polyneuropathy, Guillain-Barre syndrome, chronic
CC inflammatory demyelinating polyneuropathy, infectious hepatitis
CC (hepatitis A, B, C, D, E and other non-hepatotropic viruses), autoimmune
CC chronic active hepatitis, primary biliary cirrhosis, granulomatous
CC hepatitis, and sclerosing cholangitis, inflammatory bowel disease
CC (ulcerative colitis; Crohn's disease), gluten-sensitive enteropathy, and
CC Whipple's disease. Autoimmune or immune-mediated skin diseases including
CC bullous skin diseases, erythema multiforme, contact dermatitis, psoriasis,
CC asthma, allergic rhinitis, atopic dermatitis, food hypersensitivity,
CC urticaria, eosinophilic pneumonia, idiopathic pulmonary fibrosis,
CC hypersensitivity pneumonitis, and transplantation associated diseases
CC (graft rejection, and graft-versus-host-disease). (I), its (ant)agonists
CC or fragment can also be used as an adjuvant in treatment of tumors
CC Antibodies against (I) can also be used for diagnosing such diseases.
CC This sequence represents a protein derived from human PRO266 clone UNQ233
CC cDNA which is described in the method of the invention
XX
SQ Sequence 696 AA;

Query Match 56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 67;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14
Db 493 GVSLSKLSLHN 503
|:|||||

RESULT 12
AAV13359
ID AAV13359 standard; protein; 696 AA.
XX
AC AAV13359;
XX
DT 25-JUN-1999 (first entry)
XX
DE Amino acid sequence of protein PRO266.
XX
KW Secreted protein; transmembrane protein; human; enterocolitis;
KW Zollinger-Ellison syndrome; gastrointestinal ulceration;
KW congenital microvillus atrophy; skin disease; cell growth;
KW abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin;
KW dermal scarring; Usher Syndrome; Atrophia areata; anti-thrombotic;
KW wound healing; tissue repair.
XX
OS Homo sapiens.
XX
PN WO9914328-A2.
XX
PD 25-MAR-1999.
XX
PP 16-SEP-1998; 98WO-US019330.
XX
PR 17-SEP-1997; 97US-0059113P.
PR 17-SEP-1997; 97US-0059115P.
PR 17-SEP-1997; 97US-0059117P.
PR 17-SEP-1997; 97US-0059119P.
PR 17-SEP-1997; 97US-0059121P.
PR 17-SEP-1997; 97US-0059122P.
PR 17-SEP-1997; 97US-0059184P.
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 15-OCT-1997; 97US-0062125P.
PR 17-OCT-1997; 97US-0062285P.
PR 17-OCT-1997; 97US-0062287P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0062814P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063045P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.

PR 24-OCT-1997; 97US-0063127P.
PR 24-OCT-1997; 97US-0063128P.
PR 27-OCT-1997; 97US-0063327P.
PR 27-OCT-1997; 97US-0063329P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063542P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063549P.
PR 28-OCT-1997; 97US-0063550P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063435P.
PR 29-OCT-1997; 97US-0063704P.
PR 29-OCT-1997; 97US-0063732P.
PR 29-OCT-1997; 97US-0063734P.
PR 29-OCT-1997; 97US-0063735P.
PR 29-OCT-1997; 97US-0063738P.
PR 29-OCT-1997; 97US-0064215P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064809P.
PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
PR 18-NOV-1997; 97US-0065933P.
PR 21-NOV-1997; 97US-0066120P.
PR 21-NOV-1997; 97US-0066364P.
PR 24-NOV-1997; 97US-0066453P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066511P.
PR 24-NOV-1997; 97US-0066770P.
PR 24-NOV-1997; 97US-0066772P.
PR 25-NOV-1997; 97US-0066840P.
XX
PA (GETH) GENENTECH INC.
XX
PI Wood WI, Gurney AL, Goddard A, Pennica D, Chen J, Yuan J;
XX
DR WPI; 1999-229533/19.
DR N-FSDB; AAX52230.
XX
PT New isolated human genes and polypeptides used in, e.g. treatment of
PT gastrointestinal ulceration.
XX
PS Claim 12; Fig 34; 320pp; English.
XX
CC AAV13344-403 represent secreted and transmembrane human proteins. The
CC cDNA sequences are obtained from cDNA libraries, prepared from fetal
CC lung, fetal kidney, fetal brain, fetal liver and fetal retina. The
CC encoded polypeptides have specific uses based on their homology to known
CC polypeptides, e.g. PRO211 and PRO217 can be used for disorders associated
CC with the preservation and maintenance of gastrointestinal mucosa and the
CC repair of acute and chronic mucosal lesions (e.g. enterocolitis,
CC microvillus atrophy), skin diseases associated with abnormal keratinocyte
CC differentiation (e.g. psoriasis, epithelial cancers such as lung squamous
CC cell carcinoma of the vulva and gliomas), potent effects on cell growth
CC and development, diseases related to growth or survival of nerve cells
CC including Parkinson's disease, Alzheimer's disease, ALS, neuropathies or
CC cancer. PRO265 can be used as a target for anti-tumor drugs. PRO333 may
CC scarring. PRO264 can be used as a target for anti-tumor drugs. PRO269 can
CC be used in the treatment of Usher Syndrome or Atrophia areata; PRO263 may
CC be used as an anti-thrombotic agent; PRO287 polypeptides and portions may
CC have therapeutic applications in wound healing and tissue repair; PRO317
CC can be used for treating problems of the kidney, uterus, endometrium,
CC blood vessels, or related tissue, e.g. in the heart of genital tract
XX
SQ Sequence 696 AA;

Query Match 56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 67;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14

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Db          493 GVSLSKSLH 503
|:|:|:|:|:|
RESULT 13
AAY70671
ID AAY70671 standard; protein; 696 AA.
XX AC
XX AAY70671;
XX 18-JUL-2000 (first entry)
XX DE Human PRO266 protein.
XX KW PRO266; UNQ233; dermatological; immunosuppressive; antiinflammatory;
KW immunostimulant; antiaesthetic; antirheumatic; antiarthritic; virucide;
KW antiallergic; haemostatic; hepatotropic; antidiabetic; antianaemic;
KW nephrotropic; neuroprotective; anticoagulant; immunological disorder;
KW lung; pneumonia; skin; psoriasis; kidney; glomerulonephritis; arthritis;
KW spondyloarthropathy; SLE; systemic lupus erythematosus; scleroderma;
KW idiopathic inflammatory myopathy; anaemia; thrombocytopenia; diabetes;
KW thyroiditis; Grave's disease; demyelinating disease; multiple sclerosis;
KW Crohn's disease; hepatobiliary disease; hepatitis; asthma; human;
XX KW graft-versus-host-disease.
XX OS Homo sapiens.
XX Key Location/Qualifiers
FH Modified-site 17..23 /note= "N-myristoylation site"
FT Modified-site 18..22 /note= "N-glycosylation site"
FT Modified-site 30..34 /note= "Casein Kinase II phosphorylation site"
FT Modified-site 67..73 /note= "N-myristoylation site"
FT Modified-site 100..106 /note= "N-myristoylation site"
FT Modified-site 122..126 /note= "cAMP and cGMP-dependent protein kinase phosphorylation site"
FT Modified-site 180..184 /note= "Casein Kinase II phosphorylation site"
FT Modified-site 222..226 /note= "Casein Kinase II phosphorylation site"
FT Modified-site 253..257 /note= "N-glycosylation site"
FT Modified-site 256..260 /note= "Casein Kinase II phosphorylation site"
FT Modified-site 302..308 /note= "N-myristoylation site"
FT Modified-site 328..334 /note= "N-myristoylation site"
FT Modified-site 337..348 /note= "Prokaryotic membrane lipoprotein lipid attachment site"
FT Binding-site 343..349 /note= "N-myristoylation site"
FT Modified-site 354..360 /note= "N-myristoylation site"
FT Modified-site 363..367 /note= "N-glycosylation site"
FT Modified-site 366..370 /note= "Casein Kinase II phosphorylation site"
FT Modified-site 416..420 /note= "N-glycosylation site"
FT Modified-site 465..471 /note= "N-myristoylation site"
FT Modified-site 493..499 /note= "N-myristoylation site"
FT Modified-site 573..577 /note= "Casein Kinase II phosphorylation site"
FT Modified-site 595..599

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FT Modified-site /note= "N-glycosylation site"
FT 598..604 /note= "N-myristoylation site"
FT Modified-site 603..609 /note= "N-myristoylation site"
FT Modified-site 608..612 /note= "Casein Kinase II phosphorylation site"
FT Modified-site 646..650 /note= "cAMP and cGMP-dependent protein kinase phosphorylation site"
FT Modified-site 655..659 /note= "N-glycosylation site"
FT Modified-site 657..661 /note= "Casein Kinase II phosphorylation site"
FT Modified-site 666..670 /note= "Casein Kinase II phosphorylation site"
FT Modified-site 693..697 /note= "Casein Kinase II phosphorylation site"
XX WO200015797-A2.
XX 23-MAR-2000.
XX 15-SEP-1999; 99WO-US021547.
XX 17-SEP-1998; 98US-0100858P.
XX 17-SEP-1998; 98WO-US019437.
XX (GETH ) GENENTECH INC.
XX Fong S, Goddard A, Gurney AL, Tumas D, Wood WI;
XX WPI; 2000-271435/23.
XX N-PSDB; AAZ52205.
XX Composition for treatment and diagnosis of immune related diseases e.g.
XX Grave's disease comprises a PRO245, PRO217, PRO301, PRO266, PRO335,
XX PRO331 or PRO326 polypeptide or its agonists or antagonists (preferably
XX antibodies).
XX Example 1; Fig 10; 201pp; English.
XX The present sequence is the human protein PRO266, encoded by UNQ233 cDNA,
XX designated as clone DNA37150. It is isolated from human foetal brain
XX tissue. PRO266 has significant homology to a SLIT protein, indicating
XX that it could be a leucine rich repeat protein. It enhances or suppresses
XX the infiltration of inflammatory cells into tissues, proliferation of T-
XX lymphocytes and modulates the immune response. This sequence is useful
XX for treatment of immune related disorders, like SLE, rheumatoid/juvenile
XX arthritis, spondyloarthropathy, systemic sclerosis (scleroderma),
XX idiopathic inflammatory myopathies such as dermatomyositis, Sjogren's
XX anaemia, systemic vasculitis, sarcoidosis, autoimmune haemolytic
XX syndrome, thrombocytopenia, thyroiditis e.g. Grave's disease, diabetes
XX mellitus, immune-mediated renal disease e.g. glomerulonephritis,
XX demyelinating diseases such as multiple sclerosis and Guillain-Barre
XX syndrome, hepatobiliary diseases like hepatitis and primary biliary
XX cirrhosis, inflammatory and fibrotic lung diseases such as inflammatory
XX bowel disease (e.g. Crohn's disease), autoimmune or immune-mediated skin
XX diseases such as psoriasis, allergies like asthma, immunological diseases
XX of the lungs such as eosinophilic pneumonia and transplantation
XX associated diseases such as graft-versus-host-disease
XX SQ Sequence 696 AA;
Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 67;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 4 GMALSKLH 14
DB 493 GVSLSKSLH 503
|:|:|:|:|:|

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RESULT 14
ADC78411
ID  ADC78411 standard; protein; 696 AA.
XX
XX
AC  ADC78411;
XX
XX
DT  01-JAN-2004 (first entry)
DE
DE  Human PRO266 protein.
XX
XX
KW  antiinflammatory; antiulcer; cytostatic; antiparkinsonian;
KW  neurotropic; neuroprotective; vasotropic; chemotactic; angiogenic;
KW  neurotrophic; osteopathic; antiasthmatic; antiarthritic; antirheumatic;
KW  antiarteriosclerotic; cardiant; antidiabetic; cerebroprotective;
KW  thrombolytic; immunomodulator; enterocolitis; Zollinger-Ellison syndrome;
KW  gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease;
KW  Alzheimer's; ALS; neuropathy; dermal scarring; wound healing;
KW  nerve repair; thrombosis; bone; cartilage formation; angiogenesis;
KW  asthma; rheumatoid arthritis; multiple sclerosis; inflammatory disorder;
KW  atherosclerosis; cardiac injury; infertility; premature aging; AIDS;
KW  diabetes; stroke; gene therapy; transgenic; PRO; human.
XX
XX
OS  Homo sapiens.
XX
XX
PN  WO200015796-A2.
XX
XX
PD  23-MAR-2000.
XX
XX
PF  15-SEP-1999; 99WO-US021090.
XX
XX
PR  16-SEP-1998; 98WO-US019330.
XX
XX
PA  (GETH ) GENENTECH INC.
XX
XX
PI  Chen J, Goddard A, Gurney AL, Hillan K, Pennica D, Wood WI;
PI  Yuan J;
XX
XX
DR  WPI; 2000-271434/23.
XX
XX
DR  N-PSDB; ADC78410.
XX
XX
PT  Novel nucleic acids encoding secreted and transmembrane polypeptides with
PT  homology, e.g. to growth and cancer-associated antigens.
XX
XX
PS  Claim 12; SEQ ID NO 91; 355pp; English.
XX
XX
CC  The invention relates to a novel nucleic acid encoding a PRO polypeptide.
CC  The polypeptides and polynucleotides of the invention may be useful as
CC  research tools and as therapeutics for treating enterocolitis, Zollinger-
CC  Ellison syndrome, gastrointestinal ulceration, psoriasis, cancer,
CC  Parkinson's disease, Alzheimer's disease, ALS, neuropathies, dermal
CC  scarring and wound healing, nerve repair, thrombosis, bone and/or
CC  cartilage formation, angiogenesis, asthma, rheumatoid arthritis, multiple
CC  sclerosis, inflammatory disorders, atherosclerosis, cardiac injury,
CC  infertility, premature aging, AIDS, diabetes complications and stroke.
CC  The molecules may also be utilised during gene therapy procedures and
CC  transgenic animal production. The current sequence is that of the human
CC  PRO protein of the invention.
XX
XX
SQ  Sequence 696 AA;

Query Match      56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 67;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY  4 GVALSKINLHN 14
Db  493 GVSLSKSLHN 503

RESULT 15
AAB80227
ID  AAB80227 standard; protein; 696 AA.
XX
XX
AC  AAB80227;
XX
XX
DT  24-APR-2001 (first entry)
DE
DE  Human PRO266 protein.
XX
XX
KW  Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory;
KW  antiparkinsonian neurotropic; neuroprotective; vulnery; cardiant;
KW  antiangiogenic; vasotropic; antiasthmatic; antirheumatic; cancer;
KW  antiarthritic; antinfertility; antidiabetic; antiviral; diabetes;
KW  ophthalmological; gene therapy; skin disease; gastrointestinal disorder;
KW  ischaemia; inflammation.
XX
XX
OS  Homo sapiens.
XX
XX
PN  WO200104311-A1.
XX
XX
PD  18-JAN-2001.
XX
XX
PF  22-FEB-2000; 2000WO-US004414.
XX
XX
PR  07-JUL-1999; 99US-0143048P.
PR  26-JUL-1999; 99US-0145698P.
PR  28-JUL-1999; 99US-0146222P.
PR  08-SEP-1999; 99WO-US020594.
PR  13-SEP-1999; 99WO-US020944.
PR  15-SEP-1999; 99WO-US021090.
PR  15-SEP-1999; 99WO-US021547.
PR  05-OCT-1999; 99WO-US023089.
PR  29-NOV-1999; 99WO-US028214.
PR  30-NOV-1999; 99WO-US028313.
PR  02-DEC-1999; 99WO-US028564.
PR  02-DEC-1999; 99WO-US028565.
PR  16-DEC-1999; 99WO-US030095.
PR  20-DEC-1999; 99WO-US030911.
PR  20-DEC-1999; 99WO-US030999.
PR  05-JAN-2000; 2000WO-US000219.
XX
XX
PA  (GETH ) GENENTECH INC.
XX
XX
PI  Ashkenazi AJ, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI  Filvaroff E, Fong S, Gao W, Gerber H, Hillan KJ, Kijavini IJ;
PI  Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ, Kijavini IJ;
PI  Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI  Williams PM, Wood WI;
XX
XX
DR  WPI; 2001-081051/09.
XX
XX
DR  N-PSDB; AAF72388.
XX
XX
PT  Sixty one nucleic acids encoding PRO polypeptides which are useful in the
PT  treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung squamous
PT  cell carcinoma) and neurodegenerative diseases (e.g. Alzheimer's
PT  disease).
XX
XX
PS  Claim 1; Fig 34; 393pp; English.
XX
XX
CC  The present sequence is one of sixty one novel secreted and transmembrane
CC  PRO polypeptides. The PRO polypeptides are useful for treating skin
CC  diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma),
CC  gastrointestinal disorders (e.g. enterocolitis), neurodegenerative
CC  diseases (e.g. Alzheimer's disease, Parkinson's disease), wound repair,
CC  cardiovascular disorders (e.g. endometrial bleeding angiogenesis),
CC  ischaemias such as coronary ischaemia, atherosclerosis), inflammatory
CC  disorders (e.g. asthma, rheumatoid arthritis, multiple sclerosis),
CC  infertility, AIDS and diabetes and retinal disorders such as retinitis
CC  pigmentosum. The PRO nucleic acids have applications in molecular
CC  biology, including use as hybridization probes, and in chromosome and
CC  gene mapping
XX
XX
SQ  Sequence 696 AA;

Query Match      56.8%; Score 42; DB 4; Length 696;
Best Local Similarity 63.6%; Pred. No. 67;

```

Matches	7;	Conservative	4;	Mismatches	0;	Indels	0;	Gaps	0;
QY	4	GMALSKINLHN 14							
Db	493	GVSLSKLSLHN 503							
RESULT 16									
AAU00824									
ID	AAU00824	standard; protein; 696 AA.							
XX	AAU00824;								
XX	04-JUL-2001	(first entry)							
DE	Human immune response protein PRO266 (UNQ233).								
XX	Human; PRO266; UNQ233; immune response; osteoarthritis;								
KW	systemic lupus erythematosus; rheumatoid arthritis; Sjogren's syndrome;								
KW	juvenile chronic arthritis; spondyloarthropathy; Sjogren's syndrome;								
KW	idiopathic inflammatory myopathy; polymyositis; systemic vasculitis;								
KW	sarcoidosis; autoimmune haemolytic anaemia; immune pancytopenia;								
KW	autoimmune thrombocytopenia; idiopathic thrombocytopenic purpura;								
KW	thyroiditis; Grave's disease; Hashimoto's thyroiditis; diabetes mellitus;								
KW	glomerulonephritis; demyelinating disease; multiple sclerosis;								
KW	Guillain-Barre syndrome; hepatobiliary disease;								
KW	chronic inflammatory demyelinating polyneuropathy; infectious hepatitis;								
KW	auto immune chronic active hepatitis; primary biliary cirrhosis;								
KW	granulomatous hepatitis; sclerosing cholangitis; ulcerative colitis;								
KW	inflammatory bowel disease; Crohn's disease; Whipple's disease;								
KW	erythema multiforme; psoriasis; asthma; allergic rhinitis; urticaria;								
KW	food hypersensitivity; eosinophilic pneumonia; graft rejection;								
KW	idiopathic pulmonary fibrosis; graft-versus-host-disease; immunogen;								
KW	antibody.								
XX	Homo sapiens.								
OS									
XX									
PH	Key	Location/Qualifiers							
FT	Peptide	1..15							
FT	Protein	/label= Signal_peptide							
FT		16..696							
FT		/label= Mature_PRO266							
FT		17..23							
FT	Modified-site	/note= "Glycine at 17 is N-myristoylated"							
FT		18..22							
FT	Modified-site	/note= "Asn is N-glycosylated"							
FT		67..73							
FT	Modified-site	/note= "Glycine is N-myristoylated"							
FT		100..106							
FT	Modified-site	/note= "Glycine at 100 is N-myristoylated"							
FT		122..126							
FT	Region	/label= Phosphorylation site							
FT		/note= "cAMP/cGMP dependent protein kinase phosphorylation site"							
FT		253..257							
FT	Modified-site	/note= "Asn is N-glycosylated"							
FT		302..308							
FT	Modified-site	/note= "Glycine at 302 is N-myristoylated"							
FT		328..334							
FT	Modified-site	/note= "Glycine is N-myristoylated"							
FT		337..348							
FT	Region	/label= Lipid attachment site							
FT		/note= "Prokaryotic membrane lipoprotein attachment site"							
FT		343..349							
FT	Modified-site	/note= "Glycine at 343 is N-myristoylated"							
FT		354..360							
FT	Modified-site	/note= "Glycine is N-myristoylated"							
FT		363..367							
FT	Modified-site	/note= "Asn is N-glycosylated"							
FT		416..420							
FT	Modified-site	/note= "Asn is N-glycosylated"							
FT		465..471							
FT	Modified-site	/note= "Glycine is N-myristoylated"							

FT	Modified-site	493..499							
FT		/note= "Glycine is N-myristoylated"							
FT	Modified-site	595..599							
FT		/note= "Asn is N-glycosylated"							
FT	Modified-site	598..604							
FT		/note= "Glycine at 598 is N-myristoylated"							
FT	Modified-site	603..609							
FT		/note= "Glycine is N-myristoylated"							
FT	Domain	619..639							
FT		/label= Transmembrane_domain							
FT	Modified-site	655..659							
FT		/note= "Asn is N-glycosylated"							
XX									
PN	WO200119991-A1.								
XX									
PD	22-MAR-2001.								
XX									
PF	20-MAR-2000; 2000WO-US007377.								
XX									
PR	15-SEP-1999; 99WO-US021547.								
XX									
PA	(GETH) GENENTECH INC.								
XX									
PI	Pong S, Goddard A, Gurney AL, Hillan KJ, Tumas D, Wood WI;								
XX									
DR	WPI; 2001-226823/23.								
XX	N-PSDB; AAS00160.								
XX									
CC	Composition for diagnosing and treating immune related diseases, e.g. rheumatoid arthritis and diabetes mellitus, comprises a PRO polypeptide, agonist, antagonist or fragment.								
XX									
PS	Claim 31; Fig 8; 138pp; English.								
XX									
CC	The sequence represents Human PRO266 (UNQ233), a protein involved in the immune response. PRO polypeptides, and (ant)agonists to them, are used in compositions for modulating infiltration of inflammatory cells into a tissue, modulating an immune response and modulating proliferation of T-lymphocytes in response to an antigen. Immune related diseases can be treated with the compositions, such as, systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis, spondyloarthropathies, systemic sclerosis, Sjogren's syndrome, systemic vasculitis, myopathies (e.g. polymyositis), Crohn's disease, Hashimoto's thyroiditis, diabetes mellitus, immune-mediated renal disease (e.g. glomerulonephritis), autoimmune thrombocytopenia (e.g. idiopathic thrombocytopenic purpura), thyroiditis (e.g. Grave's disease, Hashimoto's thyroiditis), diabetes mellitus, immune-mediated diseases of the central and peripheral nervous systems e.g. demyelinating diseases of the central and peripheral nervous systems e.g. multiple sclerosis or Guillain-Barre syndrome, and chronic inflammatory demyelinating polyneuropathy, hepatobiliary diseases such as infectious hepatitis (hepatitis A, B, C, D, E and other non-hepatotropic viruses), auto immune chronic active hepatitis, primary biliary cirrhosis, granulomatous hepatitis, and sclerosing cholangitis, inflammatory bowel disease (ulcerative colitis, Crohn's disease and Whipple's disease), autoimmune or immune-mediated skin diseases (e.g. erythema multiforme and psoriasis), asthma, allergic rhinitis, urticaria, food hypersensitivity, immunologic diseases of the lung such as eosinophilic pneumonias, idiopathic pulmonary fibrosis, transplantation associated diseases including graft-versus-host-disease and graft rejection. PRO polypeptides can be used to diagnose immune related diseases, to identify inhibitors, and to stimulate the proliferation of T lymphocytes. Anti-PRO antibodies can be used to detect PRO and in diagnosis. PRO polypeptides, antibodies and (ant)agonists can be used in rational drug design								
XX									
SQ	Sequence 696 AA;								
	Query Match	56.8%;	Score 42;	DB 4;	Length 696;				
	Best Local Similarity	63.6%;	Pred. No. 67;						
	Matches	7;	Conservative	4;	Mismatches	0;	Indels	0;	Gaps 0;
QY									
	4	GMALSKINLHN 14							
		: : : :							
Db	493	GVSLSKLSLHN 503							

PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 09-DEC-1999; 99WO-US028565.
PR 20-DEC-1999; 99US-0170462P.
PR 05-JAN-2000; 2000WO-US0030911.
PR 06-JAN-2000; 2000WO-US000219.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 03-MAR-2000; 2000US-0187202P.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 10-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
XX
PA (GETH) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Chan B, Goddard A, Godowski PJ;
PI Gurney AL, Hebert C, Henzel W, Kabakoff RC, Shelton DL, Tumas D;
PI Watanabe CK, Wood WI;
XX
XX WPI; 2001-025253/03.
DR N-PSDB; AAC91464.
XX
XX Thirty three nucleic acids encoding PRO polypeptides which are useful in
PT the diagnosis and treatment of immune related disorders, e.g. systemic
PT lupus erythematosus, rheumatoid arthritis, osteoarthritis, thyroiditis
PT and diabetes mellitus.
XX
XX Claim 58; Fig 8; 218pp; English.
XX
XX The present sequence is one of thirty three novel PRO polypeptides. The
CC PRO polypeptides, anti-PRO antibodies, agonists and antagonists are
CC useful for treating and diagnosing immune related disorders such as
CC systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis,
CC juvenile chronic arthritis, spondyloarthropathies, systemic sclerosis,
CC idiopathic inflammatory myopathies, Sjogren's syndrome, systemic
CC vasculitis, sarcoidosis, autoimmune haemolytic anaemia, autoimmune
CC thrombocytopenia, thyroiditis, diabetes mellitus, immune-mediated renal
CC disease, demyelinating diseases of the central and peripheral nervous
CC systems (such as multiple sclerosis, idiopathic demyelinating
CC demyelinating polynuropathy), hepatobiliary diseases (such as
CC infectious, autoimmune chronic active hepatitis, primary biliary
CC cirrhosis, granulomatous hepatitis and sclerosing cholangitis),
CC inflammatory bowel disease, gluten-sensitive enteropathy and Whipple's
CC disease, autoimmune or immune-mediated skin diseases (such as bullous
CC skin diseases, erythema multiforme, contact dermatitis, psoriasis),
CC allergic diseases such as asthma, allergic rhinitis, atopic dermatitis,
CC food hypersensitivity and urticaria), immunological diseases of the lung
CC (such as eosinophilic pneumonias, idiopathic pulmonary fibrosis and
CC hypersensitivity pneumonitis), transplantation associated diseases
CC including graft rejection and graft-versus-host diseases
XX
XX Sequence 696 AA;
SQ
Query Match 56.8%; Score 42; DB 4; Length 696;
Best Local Similarity 63.6%; Pred. No. 67;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 4 GVALSKINLHN 14
|:|:|:|:|:|
Db 493 GVSLSKLSLHN 503

RESULT 19
ABU71605
ID ABU71605 standard; protein; 696 AA.
XX
AC ABU71605;
XX
XX 16-JUN-2003 (first entry)
XX
XX Human PRO polypeptide #16.
XX
XX Human; PRO; secreted polypeptide; transmembrane polypeptide;
KW pathological disorder; cardiac insufficiency disorder; protein secretion;
KW pancreas; diabetes; gastrointestinal mucosa; mucosal lesion; psoriasis;
KW skin disease; keratinocyte differentiation; epithelial cancer; tumour;
KW lung squamous cell carcinoma; epidermoid carcinoma; vulva; glioma;
KW cytostatic; cardiant; endocrine; antidiabetic; gastrointestinal;
KW antiulcer; dermatological; vulnerary.
XX
OS Homo sapiens.
XX
XX US2002146709-A1.
XX
XX 10-OCT-2002.
XX
XX 18-JUL-2001; 2001US-00909088.
XX
XX 17-SEP-1997; 97US-0059113P.
PR 17-SEP-1997; 97US-0059115P.
PR 17-SEP-1997; 97US-0059117P.
PR 17-SEP-1997; 97US-0059119P.
PR 17-SEP-1997; 97US-0059121P.
PR 17-SEP-1997; 97US-0059122P.
PR 17-SEP-1997; 97US-0059184P.
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 15-OCT-1997; 97US-0062125P.
PR 17-OCT-1997; 97US-0062285P.
PR 17-OCT-1997; 97US-0062287P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0062814P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063045P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 24-OCT-1997; 97US-0063128P.
PR 27-OCT-1997; 97US-0063327P.
PR 27-OCT-1997; 97US-0063329P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063542P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063549P.
PR 28-OCT-1997; 97US-0063550P.
PR 29-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063435P.
PR 29-OCT-1997; 97US-0063704P.
PR 29-OCT-1997; 97US-0063732P.
PR 29-OCT-1997; 97US-0063734P.
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PR 29-OCT-1997; 97US-0063738P.
PR 29-OCT-1997; 97US-0064215P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064509P.
PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
PR 18-NOV-1997; 97US-0065693P.
PR 21-NOV-1997; 97US-0066120P.
PR 21-NOV-1997; 97US-0066364P.
PR 24-NOV-1997; 97US-0066453P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066511P.

PR 05-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000277.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US0003565.
 PR 18-FEB-2000; 2000WO-US0004341.
 PR 18-FEB-2000; 2000WO-US0004342.
 PR 22-FEB-2000; 2000WO-US0004414.
 PR 24-FEB-2000; 2000WO-US0004914.
 PR 24-FEB-2000; 2000WO-US0005004.
 PR 01-MAR-2000; 2000WO-US0005601.
 PR 02-MAR-2000; 2000WO-US0005746.
 PR 02-MAR-2000; 2000WO-US0005841.
 PR 10-MAR-2000; 2000WO-US0006319.
 PR 15-MAR-2000; 2000WO-US0006884.
 PR 20-MAR-2000; 2000WO-US0007277.
 PR 21-MAR-2000; 2000WO-US0007532.
 PR 10-MAY-2000; 2000WO-US0008439.
 PR 17-MAY-2000; 2000WO-US0013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 11-AUG-2000; 2000WO-US02031.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 08-NOV-2000; 2000WO-US030952.
 PR 10-NOV-2000; 2000WO-US030873.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 20-DEC-2000; 2000US-00747259.
 PR 20-DEC-2000; 2000WO-US034956.
 PR 28-FEB-2001; 2001US-00796498.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 01-MAR-2001; 2001WO-US006666.
 PR 09-MAR-2001; 2001US-00802706.
 PR 14-MAR-2001; 2001US-00805889.
 PR 22-MAR-2001; 2001US-00816744.
 PR 05-APR-2001; 2001US-00828366.
 PR 10-MAY-2001; 2001US-00854208.
 PR 10-MAY-2001; 2001US-00854208.
 PR 18-MAY-2001; 2001US-00860216.
 PR 25-MAY-2001; 2001US-00866028.
 PR 25-MAY-2001; 2001US-00866034.
 PR 25-MAY-2001; 2001WO-US017092.
 PR 01-JUN-2001; 2001US-00872035.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 05-JUN-2001; 2001US-00874503.
 PR 14-JUN-2001; 2001US-00882636.
 PR 19-JUN-2001; 2001US-00886342.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 21-JUN-2001; 2001US-00887879.
 PR 22-JUN-2001; 2001WO-US020116.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 18-JUL-2001; 2001US-00908827.
 PR 06-AUG-2001; 2001US-00924419.
 PR 09-AUG-2001; 2001US-00927796.
 PR 16-AUG-2001; 2001US-00931836.
 PR 19-DEC-2001; 2001US-00028072.
 (GETH) GENENTECH INC.

XX PA Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
 XX PI Gerritsen ME, Goddard A, Godowski PU, Gurney AL, Sherwood S;
 XX PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
 XX DR WPI; 2003-341980/32.
 XX DR N-PSDB; ACD24029.

XX New secreted and transmembrane PRO nucleic acids, for treating
 XX PT inflammation, organ failure, atherosclerosis, cardiac injury,
 XX PT infertility, birth defects, premature aging, acquired immunodeficiency
 XX PT syndrome (AIDS), or cancer.

PS Claim 12; Fig 354; 660pp; English.
 XX The invention describes an isolated nucleic acid (I) comprising, or which
 CC has 80 % sequence identity to, or the full-length coding sequence of, one
 CC of 275 nucleotide sequences, and which encodes a corresponding
 CC polypeptide selected from 275 amino acid sequences, where all sequences
 CC are given in the specification. The polypeptide encoded by (I) is used to
 CC detect PRO polypeptides, link a bioactive molecule to a cell, stimulate the
 CC PRO polypeptide, modulate a biological activity of a cell, stimulate the
 CC release of tumour necrosis factor (TNF)-alpha from human blood, modulate
 CC the uptake of glucose or free fatty acid by cells, stimulate or inhibit
 CC the proliferation or differentiation of cells or gene expression,
 CC stimulate the release of proteoglycans, stimulate the release of cytokine
 CC from peripheral blood mononuclear cells, inhibit the binding of A-peptide
 CC to factor VIIa, or detect the presence of tumour in a mammal. The nucleic
 CC acid and polypeptide encoded by it, are useful for treating inflammatory
 CC diseases, organ failure, atherosclerosis, cardiac injury, infertility,
 CC (AIDS), cancer, or diabetic complications. The nucleic acid is useful as
 CC hybridisation probes, in chromosome and gene mapping, and in generating
 CC antisense RNA or DNA. The polypeptides are useful as pharmaceuticals,
 CC diagnostics, biosensors or bioreactors. Both are useful in tissue typing.
 CC This is the amino acid sequence of a novel human secreted and
 CC transmembrane PRO polypeptide
 XX Sequence 696 AA;

Query Match 56.8%; Score 42; DB 6; Length 696;
 Best Local Similarity 63.6%; Pred. No. 67;
 Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14
 Db 493 GVSLSKLSLHN 503

RESULT 21

ID ABU71460 standard; protein; 696 AA.
 XX AC ABU71460;
 XX DT 10-JUN-2003 (first entry)
 XX DE Human PRO polypeptide #16.
 XX KW Human; secreted and transmembrane protein; PRO polypeptide; cancer;
 KW Alzheimer's disease; ischaemia; cytostatic; neurotropic; vasotropic;
 XX neuroprotective.
 OS Homo sapiens.
 XX US2002192659-A1.
 PD 19-DEC-2002.
 PF 10-JUL-2001; 2001US-00902853.
 PR 17-SEP-1997; 97US-0059113P.
 PR 17-SEP-1997; 97US-0059113P.
 PR 17-SEP-1997; 97US-0059117P.
 PR 17-SEP-1997; 97US-0059119P.
 PR 17-SEP-1997; 97US-0059121P.
 PR 17-SEP-1997; 97US-0059122P.
 PR 17-SEP-1997; 97US-0059184P.
 PR 18-SEP-1997; 97US-0059263P.
 PR 18-SEP-1997; 97US-0059266P.
 PR 15-OCT-1997; 97US-0062125P.
 PR 17-OCT-1997; 97US-0062285P.
 PR 17-OCT-1997; 97US-0062287P.
 PR 21-OCT-1997; 97US-0063486P.
 PR 24-OCT-1997; 97US-0062814P.
 PR 24-OCT-1997; 97US-0062816P.

PR 17-OCT-1997; 97US-0062287P.
PR 17-OCT-1997; 97US-0063755P.
PR 24-OCT-1997; 97US-0062814P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063045P.
PR 24-OCT-1997; 97US-0063082P.
PR 24-OCT-1997; 97US-0063127P.
PR 27-OCT-1997; 97US-0063327P.
PR 27-OCT-1997; 97US-0063329P.
PR 28-OCT-1997; 97US-0063550P.
PR 28-OCT-1997; 97US-0063561P.
PR 29-OCT-1997; 97US-0063704P.
PR 29-OCT-1997; 97US-0063733P.
PR 29-OCT-1997; 97US-0063735P.
PR 29-OCT-1997; 97US-0063738P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064809P.
PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
PR 21-NOV-1997; 97US-0066364P.
PR 24-NOV-1997; 97US-0066453P.
PR 24-NOV-1997; 97US-0066511P.
PR 24-NOV-1997; 97US-0066770P.
PR 11-DEC-1997; 97US-0069212P.
PR 11-DEC-1997; 97US-0069278P.
PR 11-DEC-1997; 97US-0069334P.
PR 16-DEC-1997; 97US-0069694P.
PR 23-JAN-1998; 97US-0072320P.
PR 04-FEB-1998; 97US-0073612P.
PR 09-FEB-1998; 97US-0074086P.
PR 09-FEB-1998; 97US-0074092P.
PR 12-MAR-1998; 97US-0077791P.
PR 20-MAR-1998; 97US-0078910P.
PR 25-MAR-1998; 97US-0079294P.
PR 27-MAR-1998; 97US-0079663P.
PR 27-MAR-1998; 97US-0079728P.
PR 31-MAR-1998; 97US-0080165P.
PR 12-JUN-1998; 97US-00801245P.
PR 14-JUL-1998; 97US-00801455P.
PR 28-AUG-1998; 97US-00801788P.
PR 10-SEP-1998; 97US-008018824.
PR 14-SEP-1998; 97US-008019093.
PR 14-SEP-1998; 97US-008019094.
PR 14-SEP-1998; 97US-008019177.
PR 16-SEP-1998; 97US-008019330.
PR 17-SEP-1998; 97US-008019337.
PR 07-OCT-1998; 97US-008021141.
PR 29-OCT-1998; 97US-008022991.
PR 29-OCT-1998; 97US-008022992.
PR 20-NOV-1998; 97US-008024855.
PR 01-DEC-1998; 97US-008025108.
PR 05-JAN-1999; 97US-00800106.
PR 08-MAR-1999; 97US-00805028.
PR 10-MAR-1999; 97US-00805190.
PR 20-APR-1999; 97US-00808615.
PR 14-MAY-1999; 97US-008010733.
PR 02-JUN-1999; 97US-008012252.
PR 01-SEP-1999; 97US-008020111.
PR 08-SEP-1999; 97US-008020594.
PR 13-SEP-1999; 97US-008020944.
PR 15-SEP-1999; 97US-008021090.
PR 15-SEP-1999; 97US-008021547.
PR 05-OCT-1999; 97US-008023089.
PR 29-NOV-1999; 97US-008024214.
PR 10-NOV-1999; 97US-008028313.
PR 10-NOV-1999; 97US-008028409.
PR 01-DEC-1999; 97US-008028301.
PR 01-DEC-1999; 97US-008028634.
PR 02-DEC-1999; 97US-008028531.
PR 02-DEC-1999; 97US-008028564.
PR 02-DEC-1999; 97US-008028565.
PR 16-DEC-1999; 97US-008030095.
PR 20-DEC-1999; 97US-008030911.

PR 20-DEC-1999; 99WO-US030999.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 01-MAR-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
XX (GETH) GENENTECH INC.
XX
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI; 2003-352836/33.
XX N-PSDB; ACA67170.
XX
XX New isolated PRO polypeptide useful for treating diabetes, rheumatoid
PT arthritis, sports injuries, obesity, hearing loss in mammals, stroke, or
PT heart attack.
XX
XX Claim 12; Fig 354; 643pp; English.
XX
XX The present invention relates to the isolation of novel human PRO
CC polypeptides, and the polynucleotide sequences encoding them. The PRO
CC polypeptides are secreted and transmembrane proteins. The PRO
CC polypeptides and polynucleotides are useful for preparing a medicament
CC useful in the treatment of diabetes, bone and/or cartilage disorders
CC (e.g. rheumatoid arthritis, sports injuries, osteoarthritis), obesity,
CC hyper- or hypo-insulinaemia, hearing loss, and coagulation disorders
CC (e.g. stroke, heart attack). Anti-PRO antibodies are useful in diagnostic
CC assays for PRO, by detecting its expression in specific cells, tissues or
CC serum, and for affinity purification of PRO from recombinant cell culture
CC or natural sources. ABU0870-ABU01144 represent the human PRO
CC polypeptides of the invention. Note: The sequence data for this patent
CC was obtained in electronic format directly from the USPTO web site at
CC seqdata.uspto.gov/psipsIDEntry.html
XX
XX Sequence 696 AA;
SQ
Query Match 56.8%; Score 42; DB 6; Length 696;
Best Local Similarity 63.6%; Pred. No. 67;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 4 GMALSKINLHN 14
|:|:|:|:|:
Db 493 GVSLSKLSLHN 503
RESULT 23
ABU71906
ID ABU71906 standard; protein; 696 AA.
XX
AC ABU71906;
XX
XX 12-JUN-2003 (first entry)
XX Human secreted/transmembrane protein PRO266.
XX Human; secreted protein; transmembrane protein; PRO; gene therapy;
XX Chromosome identification; chromosome marker.
XX Homo sapiens.
XX US2003003530-A1.
XX
XX

[illegible]

Query Match	56.8%	Score 42;	DB 6;	Length 696;
Best Local Similarity	63.6%	Pred. No. 67;		
Matches 7;	Conservative 4;	Mismatches 0;	Indels 0;	Gaps 0;
Oy	4 GWALSKINLHN 14			
Db	493 GVSLSKLSLHN 503			
RESULT 25				
ABU66746				
ID	ABU66746 standard; protein; 696 AA.			
XX				
AC	ABU66746;			
DT	23-MAY-2003 (first entry)			
XX				
DE	Human PRO polypeptide #177.			
XX				
KW	Human; PRO polypeptide; secreted and transmembrane protein;			
KW	tumour necrosis factor-alpha; TNF-alpha; blood; proliferation;			
KW	differentiation; chondrocyte; tumour; Genetic disorder; cytostatic.			
XX				
OS	Homo sapiens.			
XX				
PN	US2003036180-A1.			
XX				
PD	20-FEB-2003.			
XX				
PF	09-MAY-2002; 2002US-00143114.			
XX				
PR	31-MAR-1997; 97WO-US005230.			
PR	12-JUN-1998; 98WO-US012456.			
PR	14-JUL-1998; 98WO-US014552.			
PR	28-AUG-1998; 98WO-US017888.			
PR	10-SEP-1998; 98WO-US018824.			
PR	14-SEP-1998; 98WO-US019031.			
PR	14-SEP-1998; 98WO-US019094.			
PR	16-SEP-1998; 98WO-US019330.			
PR	17-SEP-1998; 98WO-US019437.			
PR	07-OCT-1998; 98WO-US021141.			
PR	29-OCT-1998; 98WO-US022991.			
PR	29-OCT-1998; 98WO-US022992.			
PR	20-NOV-1998; 98WO-US024855.			
PR	01-DEC-1998; 98WO-US025108.			
PR	05-JAN-1999; 99WO-US000106.			
PR	08-MAR-1999; 99WO-US005028.			
PR	10-MAR-1999; 99WO-US005190.			
PR	20-APR-1999; 99WO-US008615.			
PR	14-MAY-1999; 99WO-US010733.			
PR	02-JUN-1999; 99WO-US012252.			
PR	01-SEP-1999; 99WO-US020111.			
PR	08-SEP-1999; 99WO-US020594.			
PR	13-SEP-1999; 99WO-US020944.			
PR	15-SEP-1999; 99WO-US021090.			
PR	15-SEP-1999; 99WO-US021547.			
PR	05-OCT-1999; 99WO-US023089.			
PR	29-NOV-1999; 99WO-US028214.			
PR	30-NOV-1999; 99WO-US028313.			
PR	30-NOV-1999; 99WO-US028409.			
PR	01-DEC-1999; 99WO-US028301.			
PR	01-DEC-1999; 99WO-US028634.			
PR	02-DEC-1999; 99WO-US028551.			
PR	02-DEC-1999; 99WO-US028564.			
PR	02-DEC-1999; 99WO-US028565.			
PR	16-DEC-1999; 99WO-US030095.			
PR	20-DEC-1999; 99WO-US030911.			
PR	20-DEC-1999; 99WO-US030999.			
PR	22-DEC-1999; 99WO-US030720.			
PR	30-DEC-1999; 99WO-US031243.			
PR	30-DEC-1999; 99WO-US031274.			
PR	05-JAN-2000; 2000WO-US000215.			
PR	06-JAN-2000; 2000WO-US000277.			
PR	06-JAN-2000; 2000WO-US000376.			
PR	11-FEB-2000; 2000WO-US003565.			
PR	18-FEB-2000; 2000WO-US004341.			
PR	18-FEB-2000; 2000WO-US004342.			
PR	22-FEB-2000; 2000WO-US004414.			
PR	24-FEB-2000; 2000WO-US004914.			
PR	01-MAR-2000; 2000WO-US005601.			
PR	02-MAR-2000; 2000WO-US005746.			
PR	02-MAR-2000; 2000WO-US005841.			
PR	10-MAR-2000; 2000WO-US006319.			
PR	15-MAR-2000; 2000WO-US006884.			
PR	20-MAR-2000; 2000WO-US007377.			
PR	21-MAR-2000; 2000WO-US007532.			
PR	30-MAR-2000; 2000WO-US008439.			
PR	17-MAY-2000; 2000WO-US013705.			
PR	22-MAY-2000; 2000WO-US014042.			
PR	30-MAY-2000; 2000WO-US014941.			
PR	02-JUN-2000; 2000WO-US015264.			
PR	28-JUL-2000; 2000WO-US020710.			
PR	11-AUG-2000; 2000WO-US022031.			
PR	23-AUG-2000; 2000WO-US023522.			
PR	24-AUG-2000; 2000WO-US023328.			
PR	08-NOV-2000; 2000WO-US030952.			
PR	10-NOV-2000; 2000WO-US030873.			
PR	01-DEC-2000; 2000WO-US032678.			
PR	20-DEC-2000; 2000US-00747259.			
PR	20-DEC-2000; 2000WO-US034956.			
PR	28-FEB-2001; 2001US-00796498.			
PR	28-FEB-2001; 2001WO-US006520.			
PR	01-MAR-2001; 2001WO-US006666.			
PR	09-MAR-2001; 2001US-00802706.			
PR	14-MAR-2001; 2001US-00808689.			
PR	22-MAR-2001; 2001US-00816744.			
PR	05-APR-2001; 2001US-00828366.			
PR	10-MAY-2001; 2001US-00854208.			
PR	10-MAY-2001; 2001US-00854280.			
PR	18-MAY-2001; 2001US-00860216.			
PR	25-MAY-2001; 2001US-00866028.			
PR	25-MAY-2001; 2001US-00866034.			
PR	25-MAY-2001; 2001WO-US017092.			
PR	01-JUN-2001; 2001US-00872035.			
PR	01-JUN-2001; 2001WO-US017800.			
PR	05-JUN-2001; 2001US-00874503.			
PR	14-JUN-2001; 2001US-00882636.			
PR	19-JUN-2001; 2001US-00886342.			
PR	20-JUN-2001; 2001WO-US019692.			
PR	21-JUN-2001; 2001US-00887879.			
PR	22-JUN-2001; 2001WO-US020116.			
PR	29-JUN-2001; 2001WO-US021066.			
PR	09-JUL-2001; 2001WO-US021735.			
PR	18-JUL-2001; 2001US-00908827.			
PR	06-AUG-2001; 2001US-00924419.			
PR	09-AUG-2001; 2001US-00927796.			
PR	16-AUG-2001; 2001US-00931836.			
PR	19-DEC-2001; 2001US-00028072.			
XX	(GETH) GENENTECH INC.			
PA				
XX	Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;			
PI	Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;			
PI	Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;			
XX	WPI; 2003-332040/31.			
DR	N-PSDB; ACA03779.			
DR				
XX				
PT	New secreted and transmembrane PRO nucleic acids, useful for gene			
PT	therapy, in chromosome and gene mapping, as chromosome markers, in tissue			
PT	typing, and in chromosome identification.			
XX				
PS	Claim 12; Fig 354; 660pp; English.			
XX				

CC The present invention relates to the isolation of novel human PRO
 CC polypeptides, and the polynucleotide sequences encoding them. The PRO
 CC polypeptides are secreted and transmembrane proteins. The PRO
 CC polypeptides are useful for detecting other PRO polypeptides, for linking
 CC bioactive molecules to cells expressing PRO polypeptides, for modulating
 CC biological activities of cells expressing PRO polypeptides, and for for
 CC identifying agonists or antagonists. The PRO polypeptides are useful for
 CC for stimulating the release of tumour necrosis factor (TNF)-alpha from
 CC human blood, for stimulating the proliferation or differentiation of
 CC chondrocytes, and detecting the presence of tumours. The polynucleotide
 CC sequences encoding PRO polypeptides are useful as hybridisation probes,
 CC in chromosome and gene mapping, in the generation of antisense RNA and
 CC DNA, in the preparation of PRO polypeptides, for generating transgenic
 CC animals or knockout animals, for the genetic analysis of individuals with
 CC genetic disorders, and in gene therapy. AB06570-AB06684 represent the
 CC human PRO polypeptides of the invention. Note: The sequence data for this
 CC patent was obtained in electronic format directly from the USPTO web site
 CC at seqdata.uspto.gov/patseq/DIDentry.html
 XX
 SQ Sequence 696 AA;

Query Match 56.8%; Score 42; DB 6; Length 696;
 Best Local Similarity 63.6%; Pred. No. 67;
 Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GWALSKINLHN 14
 [:::||||::|
 Db 493 GVSLSKLSLHN 503

RESULT 26
 AB054362
 ID AB054362 standard; protein; 696 AA.

XX AB054362;

XX 10-MAR-2003 (first entry)

DE Human secreted/transmembrane protein PRO266.

XX Human; PRO; secreted protein; transmembrane protein; enterocolitis;
 KW Gastrointestinal ulceration; skin disease;
 KW abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
 KW squamous cell carcinoma; Alzheimer's disease; Parkinson's disease;
 KW amyotrophic lateral sclerosis; inflammatory disease;
 KW rheumatoid arthritis; asthma; multiple sclerosis; organ failure;
 KW atherosclerosis; cardiac injury; infertility; birth defect;
 KW premature aging; AIDS; acquired immunodeficiency syndrome; cancer;
 KW diabetic complication; wound repair.

XX Homo sapiens.

XX US2002132240-A1.

DD 19-SEP-2002.

XX 18-JUL-2001; 2001US-00909320.

XX 17-SEP-1997; 97US-0059113P.

PR 17-SEP-1997; 97US-0059115P.

PR 17-SEP-1997; 97US-0059117P.

PR 17-SEP-1997; 97US-0059119P.

PR 17-SEP-1997; 97US-0059121P.

PR 17-SEP-1997; 97US-0059122P.

PR 17-SEP-1997; 97US-0059184P.

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PR 15-OCT-1997; 97US-0062125P.

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PR 21-OCT-1997; 97US-0063486P.

PR 24-OCT-1997; 97US-0062814P.

PR 24-OCT-1997; 97US-0062816P.

PR 24-OCT-1997; 97US-0063045P.
 PR 24-OCT-1997; 97US-0063120P.
 PR 24-OCT-1997; 97US-0063121P.
 PR 24-OCT-1997; 97US-0063127P.
 PR 24-OCT-1997; 97US-0063128P.
 PR 27-OCT-1997; 97US-0063327P.
 PR 27-OCT-1997; 97US-0063329P.
 PR 28-OCT-1997; 97US-0063541P.
 PR 28-OCT-1997; 97US-0063542P.
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 PR 28-OCT-1997; 97US-0063550P.
 PR 28-OCT-1997; 97US-0063564P.
 PR 29-OCT-1997; 97US-0063435P.
 PR 29-OCT-1997; 97US-0063704P.
 PR 29-OCT-1997; 97US-0063732P.
 PR 29-OCT-1997; 97US-0063734P.
 PR 29-OCT-1997; 97US-0063735P.
 PR 29-OCT-1997; 97US-0063738P.
 PR 29-OCT-1997; 97US-0064215P.
 PR 31-OCT-1997; 97US-0063870P.
 PR 31-OCT-1997; 97US-0064103P.
 PR 03-NOV-1997; 97US-0064248P.
 PR 07-NOV-1997; 97US-0064809P.
 PR 12-NOV-1997; 97US-0065186P.
 PR 17-NOV-1997; 97US-0065846P.
 PR 18-NOV-1997; 97US-0065933P.
 PR 21-NOV-1997; 97US-0066120P.
 PR 21-NOV-1997; 97US-0066364P.
 PR 24-NOV-1997; 97US-0066453P.
 PR 24-NOV-1997; 97US-0066466P.
 PR 24-NOV-1997; 97US-0066511P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 24-NOV-1997; 97US-0066772P.
 PR 10-SEP-1998; 98WO-US018824.
 PR 14-SEP-1998; 98WO-US019177.
 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98WO-US019437.
 PR 01-DEC-1998; 98WO-US0205108.
 PR 08-SEP-1999; 99WO-US020594.
 PR 13-SEP-1999; 99WO-US020944.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 05-OCT-1999; 99WO-US023089.
 PR 29-NOV-1999; 99WO-US028214.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028301.
 PR 02-DEC-1999; 99WO-US028564.
 PR 02-DEC-1999; 99WO-US028565.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 20-DEC-1999; 99WO-US030999.
 PR 06-JAN-2000; 2000WO-US000219.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 18-SEP-2000; 2000US-0065350.

(GETH) GENENTECH INC.

XX Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
 XX Pilvaroff E, Fong S, Gerber H, Gerritsen ME, Goddard A;
 PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin LJ;
 PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
 PI Williams EM, Wood WI;
 XX

PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028564.
PR 16-DEC-1999; 99WO-US028565.
PR 20-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 99WO-US030999.
PR 11-FEB-2000; 2000WO-US000219.
PR 22-FEB-2000; 2000WO-US003465.
PR 24-FEB-2000; 2000WO-US004414.
PR 02-MAR-2000; 2000WO-US005841.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00665350.
XX
PA (GETH) GENENTECH INC.
XX Ashkenazi L, Desnoyers L, Eaton DL, Ferrara N;
PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin LJ;
PI Mather JP, Pan J, Pironi NF, Roy MA, Stewart TA, Tumas D;
PI Williams PM, Wood WI;
XX
DR WPI: 2003-492258/46.
DR N-PSDB; ACH06634.
XX
PT Novel secreted and transmembrane polypeptides and polynucleotides
PT encoding them useful for treating abnormal bleeding involved in
PT gynecological diseases, skin diseases and neurodegenerative diseases.
XX
PS Claim 12; Fig 34; 478pp; English.
XX
SS The invention relates to an isolated PRO polypeptide. PRO317 is useful in
CC diagnosing or treating abnormal bleeding involved in gynecological
CC diseases e.g. to avoid or lessen the need for hysterectomy. PRO317 may
CC also be useful as an agent that affects angiogenesis and PRO317 is useful
CC in anti-tumour indications or in treating coronary ischaemic conditions.
CC PRO211 and PRO217 polypeptides are useful for treating disorders
CC associated with the preservation and maintenance of gastrointestinal
CC mucosa and the repair of acute and chronic mucosal lesions, skin diseases
CC associated with abnormal keratinocyte differentiation (e.g. psoriasis).
CC PRO187 polypeptide is useful for treating Parkinson's disease,
CC Alzheimer's disease, amyotrophic lateral sclerosis (ALS), neuropathies
CC and disease related to uncontrolled cell growth, e.g. cancer. PRO219
CC polypeptide plays a regulatory role in the blood coagulation cascade.
CC PRO246 polypeptides which serves as tumour specific antigens may be
CC exploited as therapeutic targets for anti-tumour drugs. PRO249
CC polypeptide is useful as an antithrombotic agent with reduced risk for
CC haemorrhage as compared with heparin. PRO317 polypeptide is useful in
CC treating endometrial bleeding angiogenesis. PRO287 polypeptides and
CC portion have therapeutic applications in wound healing and tissue repair.
CC PRO234 polypeptides are useful for treating asthma, rheumatoid arthritis,
CC psoriasis and multiple sclerosis. The polypeptide and its nucleic acid
CC are useful for tissue typing. PRO antibodies are useful for
CC immunohistochemical staining and/or assay of sample fluids. Anti-PRO
CC antibodies are useful in diagnostic assays for PRO e.g. detecting its
CC expression in specific cells, tissues or serum and for affinity
CC purification of PRO from recombinant cell culture or natural sources. The
CC present sequence represents the amino acid sequence of a human secreted/
CC transmembrane PRO polypeptide

XX SQ Sequence 696 AA;
Query Match 56.8%; Score 42; DB 6; Length 696;
Best Local Similarity 63.6%; Pred. No. 67;
Matches 7; Conservative 4; Mismatches 0; Gaps 0;
QY 4 GMALSKINLHN 14
|:|:|:|:|:
DB 493 GVSLSKSLHN 503
RESULT 28
ABUS9827
ID ABUS9827 standard; protein; 696 AA.
XX AC ABUS9827;
XX DT 13-MAY-2003 (first entry)
DE Novel secreted and transmembrane protein PRO266.
XX Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
KW cardiac insufficiency disorder; cancer; tumour; immune response;
KW adrenal cortical capillary endothelial growth; c-fos induction;
KW vascular endothelial growth factor inhibition; VEGF inhibition;
KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
KW retinal neurons cell survival; rod photoreceptor cell survival;
KW retinal disorder; retinitis pigmentosa; kidney disorder;
KW mammalian kidney mesangial cell proliferation; Berger disease;
KW chondrocyte; herpeticiformis; Crohn's disease; chondrocyte proliferation;
KW chondrocyte redifferentiation; sports injury; arthritis.
XX Homo sapiens.
XX US2003017563-A1.
XX PD 23-JAN-2003.
XX PF 07-MAY-2002; 2002US-00140808.
XX PR 31-MAR-1997; 97WO-US005230.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US008619.
PR 20-APR-1999; 99WO-US010733.
PR 14-MAY-1999; 99WO-US012252.
PR 02-JUN-1999; 99WO-US020111.
PR 01-SEP-1999; 99WO-US020594.
PR 08-SEP-1999; 99WO-US020944.
PR 13-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.

PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 22-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00860628.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.
XX
PA (GETH) GENENTECH INC.
XX
XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;

XX WPI; 2003-148238/14.
DR N-PSDB; ABX89317.
XX
PT Two hundred and seventy five nucleic acids encoding PRO polypeptides,
PT useful for treating pericyte-associated tumors, diabetes and various bone
PT and/or cartilage disorders, e.g. arthritis.
XX
PS Claim 12; Fig 354; 659pp; English.
XX
CC The invention describes an isolated human PRO polypeptide. The PRO
CC polypeptides are useful in detecting PRO polypeptides in a sample, in
CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and
CC in modulating at least one biological activity of a cell expressing a PRO
CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
CC stimulate adrenal cortical capillary endothelial growth, and PRO536,
CC PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
CC useful for treating conditions or disorders where angiogenesis would be
CC beneficial, e.g. wound healing and antagonist of this polypeptide are
CC useful for treating cancerous tumours. PRO812 inhibits vascular
CC endothelial growth factor (VEGF) stimulated proliferation of endothelial
CC cells and is thus useful for inhibiting endothelial cell growth in
CC mammals which would be beneficial in inhibiting tumour growth. PRO826,
CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of
CC stimulated T-lymphocytes and are therapeutically useful for enhancing
CC immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of
CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of
CC rod photoreceptor cells) and therefore are useful for treating retinal
CC disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813
CC and PRO11066 induce proliferation of mammalian kidney mesangial cells,
CC and therefore are useful for treating kidney disorders associated with
CC decreased mesangial cell function such as Berger disease or other
CC nephropathies associated with dermatitis, herpetiformis or Crohn's
CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the
CC proliferation and/or redifferentiation of chondrocytes in culture and are
CC thus useful for treating sports injuries, and arthritis. This is the
CC amino acid sequence of a novel human PRO protein
XX
SQ Sequence 696 AA;
Query Match 56.8%; Score 42; DB 6; Length 696;
Best Local Similarity 63.6%; Pred. No. 67;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
Qy 4 GMALSKINLNHN 14
|:|:|:|:|:
Db 493 GVSLSKLSLHN 503

RESULT 29
ABO25017
ID ABO25017 standard; protein; 696 AA.
XX
AC ABO25017;
XX
DT 05-SEP-2003 (first entry)
XX
DE Human secreted/transmembrane protein (PRO) #177.
XX
KW Human; PRO; secreted protein; transmembrane protein; tumour; cytostatic;
KW gene therapy; tumour necrosis factor-alpha; TNF-alpha; blood;
KW proteoglycan; cartilage; cytokine; peripheral blood mononuclear cell;
KW PMBC; glucose uptake; FFA; skeletal muscle cell; adipocyte cell;
KW chondrocyte cell proliferation; chondrocyte cell differentiation;
KW pericyte cell; inner ear utricular supporting cell; T-lymphocyte cell;
KW endothelial cell; A-peptide; factor VIIA.
XX
XX Homo sapiens.
OS
XX US2003036179-A1.
PN
XX

PD 20-FEB-2003.
XX 10-MAY-2002; 2002US-00142431.
XX 31-MAR-1997; 97WO-US005230.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 16-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 27-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US021455.
PR 01-DEC-1998; 98WO-US023108.
PR 01-JAN-1999; 99WO-US002106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028951.
PR 02-DEC-1999; 99WO-US028954.
PR 16-DEC-1999; 99WO-US028955.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 22-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 11-FEB-2000; 2000WO-US000376.
PR 18-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004342.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 17-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 28-JUN-2000; 2000WO-US015264.
PR 11-AUG-2000; 2000WO-US020710.
PR 23-AUG-2000; 2000WO-US022031.
PR 24-AUG-2000; 2000WO-US023522.
PR 10-NOV-2000; 2000WO-US023328.
PR 10-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.

PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 18-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.

(GETH) GENENTECH INC.

Baker KP, Beresini M, Deforge L, Desnovers L, Filvaroff E, Gao W;
Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;

WPI; 2003-466355/44.
N-PSDB; ACD41971.

New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO1114 or
PRO4978, useful in molecular biology, chromosome and gene mapping, in
generating antisense RNA and DNA, and in gene therapy.

Claim 12; Fig 354; 659pp; English.

The invention relates to an isolated nucleic acid comprising at least 80%
sequence identity to a PRO (secreted and transmembrane protein) cDNA
comprising a nucleic acid (a) encoding a PRO polypeptide, or its
extracellular domain (with or without its associated signal peptide),
which comprises any of the 275 120-850 residue amino acid sequences,
given in the specification; (b) comprising any of the 275 300-3500
nucleotide sequences, given in the specification; or (c) comprising the
full-length coding sequence of the nucleotide sequences given in the
specification, or of the DNA deposited under any of the American Type
Culture Collection (ATCC) Accession Numbers listed in the specification.
Also included are a vector comprising the novel nucleic acid, a host cell
comprising the vector, producing a PRO polypeptide, the isolated PRO
polypeptides detailed above, a chimeric molecule comprising the PRO
polypeptide of fused to a heterologous amino acid sequence, an anti-PRO
antibody, detecting a PRO polypeptide in a sample suspected of containing
the PRO polypeptide, linking a bioactive molecule to a cell expressing a
PRO polypeptide, modulating at least one biological activity of a cell
expressing a PRO polypeptide, stimulating the release of tumour necrosis
factor-alpha (TNF-alpha) from human blood, (or proteoglycans from
cartilage or cytokine from peripheral blood mononuclear cells (PBMC)),
modulating the uptake of glucose or FFA by skeletal muscle cells or
adipocyte cells, stimulating the proliferation or differentiation of
chondrocyte cells (or proliferation of or gene expression in pericyte
cells), stimulating the proliferation of inner ear utricular supporting
cells (or of T-lymphocyte cells, or of endothelial cells), inhibiting the
binding of A-peptide to factor VIIA, or differentiation of adipocyte
cells, detecting the presence of a tumour in a mammal and an

CC oligonucleotide probe derived from any of the nucleotide sequences given
CC in the specification. The polynucleotide is useful in molecular biology,
CC including uses as hybridisation probes, in chromosome and gene mapping,
CC in generating antisense RNA and DNA, and in gene therapy. The
CC polynucleotide may also be used in preparing PRO polypeptides by
CC recombinant techniques, and in generating either transgenic animals or
CC knock-out animals which, in turn, are useful in the development and
CC screening of therapeutically useful reagents. The PRO polypeptide or the
CC antibody is used in preparing a medicament for treating a condition
CC responsive to the polypeptide or antibody, such as tumours, and in
CC various diagnostic assays. The present sequence represents a PRO
CC polypeptide
XX
SQ Sequence 696 AA;

Query Match 56.8%; Score 42; DB 6; Length 696;
Best Local Similarity 63.6%; Pred. No. 67;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
Qy 4 GMALSKINLHN 14
Db 493 GVSLSKLSLHN 503
|:|||||:
|:|||||:

RESULT 30
ABU64514
ID ABU64514 standard; protein; 696 AA.
AC ABU64514;
XX
DT 13-MAY-2003 (first entry)
XX
DE Human secreted/transmembrane protein, #18.
XX
KW Human; PRO; secreted; transmembrane; pharmaceutical; diagnostic;
KW biosensor; bioindicator; therapeutic; hyperplasia; endometriosis; cancer;
KW tumour; ichaemia; coronary arterial disease; polycystic kidney disease;
KW renal failure; inflammatory response; asthma; rheumatoid arthritis;
KW psoriasis; multiple sclerosis; gene therapy; cytostatic; gynecological;
KW cardiac; nephrotropic; hepatotropic; antiinflammatory.
XX
OS Homo sapiens.
XX
PN US2002160374-A1.
XX
PD 31-OCT-2002.
XX
PF 12-JUL-2001; 2001US-00905291.
XX
PR 17-SEP-1997; 97US-0059113P.
PR 17-SEP-1997; 97US-0059115P.
PR 17-SEP-1997; 97US-0059117P.
PR 17-SEP-1997; 97US-0059119P.
PR 17-SEP-1997; 97US-0059121P.
PR 17-SEP-1997; 97US-0059122P.
PR 17-SEP-1997; 97US-0059184P.
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 15-OCT-1997; 97US-0062125P.
PR 17-OCT-1997; 97US-0062285P.
PR 17-OCT-1997; 97US-0062287P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0062814P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063045P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063122P.
PR 24-OCT-1997; 97US-0063127P.
PR 24-OCT-1997; 97US-0063128P.
PR 27-OCT-1997; 97US-0063327P.
PR 27-OCT-1997; 97US-0063329P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063542P.

PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063549P.
PR 28-OCT-1997; 97US-0063550P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063435P.
PR 29-OCT-1997; 97US-0063704P.
PR 29-OCT-1997; 97US-0063732P.
PR 29-OCT-1997; 97US-0063734P.
PR 29-OCT-1997; 97US-0063735P.
PR 29-OCT-1997; 97US-0063738P.
PR 29-OCT-1997; 97US-0064155P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064809P.
PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
PR 18-NOV-1997; 97US-0065693P.
PR 21-NOV-1997; 97US-0066120P.
PR 21-NOV-1997; 97US-0066364P.
PR 24-NOV-1997; 97US-0066453P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066511P.
PR 24-NOV-1997; 97US-0066770P.
PR 24-NOV-1997; 97US-0066772P.
PR 10-SEP-1998; 98WO-US019177.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020594.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 05-JAN-2000; 2000WO-US000219.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00665350.
XX
PA (GETH) GENENTECH INC.
XX
XX Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kijavini IJ;
PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI Williams PM, Wood WI;
XX WPI; 2003-288105/28.
DR N-PSDB; ABX96091.
XX
PT New secreted and transmembrane PRO polypeptides (e.g. PRO533 or PRO245)
PT and genes encoding them, useful for detecting or treating e.g.
PT hyperplasia, endometriosis, cancers, ischemia, coronary arterial disease
PT or inflammations.
XX
PS Claim 12; Fig 34; 477pp; English.

Ferrara N;
Gerritsen ME;
Hillan KJ;
Kijavini IJ;
Roy MA;
Stewart TA;
Tumas D;

XX The invention discloses isolated PRO secreted/transmembrane polypeptides
CC and the nucleic acid encoding them. The polypeptides can be used to raise
CC antibodies that specifically bind to the PRO polypeptide, for linking a
CC bioactive molecule to a cell expressing a PRO protein and for modulating
CC at least one biological activity of a cell. The PRO polypeptides or
CC polynucleotides are also useful as pharmaceuticals, diagnostics,
CC biosensors or bioreactors, for detecting or treating e.g. hyperplasia,
CC endometriosis, cancers (e.g. those involving solid tumours), ischaemia,
CC coronary arterial disease, polycystic kidney disease, chronic or acute
CC renal failure, or inflammatory responses (e.g. asthma, rheumatoid
CC arthritis, psoriasis or multiple sclerosis) in mammals. The PRO genes may
CC also be used in gene therapy, particularly for replacing a defective
CC gene. The sequences presented in ABU64499-ABU64559 are the PRO
CC polynucleotides of the invention
XX
SQ Sequence 696 AA;

Query Match 56.8%; Score 42; DB 6; Length 696;
Best Local Similarity 63.6%; Pred. No. 67;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 4 GMAISKINLN 14
Db 493 GVSUSKSLN 503
:::|||||

RESULT 31
ID ABU67360
ABU67360 standard; protein; 696 AA.

XX AC ABU67360;
XX 29-MAY-2003 (first entry)
XX Human secreted protein PRO226.
XX Human; gene therapy; mucosal lesion; ulcer; enterocolitis; skin disease;
KW psoriasis; cancer; lung cancer; colon cancer; nerve cell disease;
KW Alzheimer's disease; Parkinson's disease; Usher syndrome; angiogenesis;
KW atrophla areata; inflammatory disease; asthma; rheumatoid arthritis;
KW ischaemia.
XX Homo sapiens.
XX US2003023054-A1.
PN
XX 30-JAN-2003.

XX 16-JUL-2001; 2001US-00906742.

XX 17-SEP-1997; 97US-0059113P.
XX 17-SEP-1997; 97US-0059115P.
XX 17-SEP-1997; 97US-0059117P.
XX 17-SEP-1997; 97US-0059119P.
XX 17-SEP-1997; 97US-0059121P.
XX 17-SEP-1997; 97US-0059122P.
XX 18-SEP-1997; 97US-0059184P.
XX 18-SEP-1997; 97US-0059263P.
XX 15-OCT-1997; 97US-0059266P.
XX 17-OCT-1997; 97US-0062125P.
XX 17-OCT-1997; 97US-0062285P.
XX 21-OCT-1997; 97US-0063486P.
XX 24-OCT-1997; 97US-0062814P.
XX 24-OCT-1997; 97US-0062816P.
XX 24-OCT-1997; 97US-0063045P.
XX 24-OCT-1997; 97US-0063120P.
XX 24-OCT-1997; 97US-0063121P.
XX 24-OCT-1997; 97US-0063127P.
XX 27-OCT-1997; 97US-0063128P.
XX 27-OCT-1997; 97US-0063327P.
XX 27-OCT-1997; 97US-0063329P.

PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063542P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063549P.
PR 28-OCT-1997; 97US-0063550P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063435P.
PR 29-OCT-1997; 97US-0063704P.
PR 29-OCT-1997; 97US-0063732P.
PR 29-OCT-1997; 97US-0063734P.
PR 29-OCT-1997; 97US-0063735P.
PR 29-OCT-1997; 97US-0063738P.
PR 29-OCT-1997; 97US-0064215P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064809P.
PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
PR 18-NOV-1997; 97US-0065693P.
PR 21-NOV-1997; 97US-0068120P.
PR 21-NOV-1997; 97US-0068164P.
PR 24-NOV-1997; 97US-0068453P.
PR 24-NOV-1997; 97US-0068511P.
PR 24-NOV-1997; 97US-0066770P.
PR 24-NOV-1997; 97US-0066772P.
PR 25-NOV-1997; 97US-0066840P.
PR 12-DEC-1997; 97US-0069425P.
PR 04-JUN-1998; 98US-0088026P.
PR 10-SEP-1998; 98US-0099803P.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98US-0100262P.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98WO-US019437.
PR 13-OCT-1998; 98US-0104080P.
PR 20-NOV-1998; 98US-0109304P.
PR 01-DEC-1998; 98WO-US025108.
PR 22-DEC-1998; 98US-0113296P.
PR 07-JUL-1999; 98US-0143048P.
PR 26-JUL-1999; 98US-0145698P.
PR 28-JUL-1999; 98US-0146224P.
PR 08-SEP-1999; 98WO-US020594.
PR 13-SEP-1999; 98WO-US020944.
PR 15-SEP-1999; 98WO-US021090.
PR 15-SEP-1999; 98WO-US021547.
PR 05-OCT-1999; 98WO-US023089.
PR 29-NOV-1999; 98WO-US028214.
PR 30-NOV-1999; 98WO-US028313.
PR 01-DEC-1999; 98WO-US028301.
PR 02-DEC-1999; 98WO-US028564.
PR 02-DEC-1999; 98WO-US028565.
PR 16-DEC-1999; 98WO-US030095.
PR 20-DEC-1999; 98WO-US030911.
PR 05-JAN-2000; 98WO-US030999.
PR 11-FEB-2000; 2000WO-US000219.
PR 22-FEB-2000; 2000WO-US003565.
PR 24-FEB-2000; 2000WO-US004414.
PR 02-MAR-2000; 2000WO-US005841.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015284.
PR 28-JUL-2000; 2000WO-US020710.
PR 28-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000WO-US0265350.

(GETH) GENENTECH INC.

Ashkenazi A, Botstein D, Deanoyers L, Eaton DL, Ferrara N;

PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI Mathers JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
XX Williams PM, Wood WI;
DR WPI; 2003-331485/31.
DR N-PSDB; ACA05412.
XX
XX Sixty one isolated nucleic acids encoding a PRO polypeptide, e.g. PRO245
PT or PRO1866, useful in chromosome and gene mapping, in generating
PT antisense RNA and DNA, and in treating cancer and Alzheimer's disease.
XX
XX Example 14; Fig 34; 481pp; English.
XX
CC The invention relates to sixty one nucleic acids encoding PRO
CC polypeptides (secreted and transmembrane). The polynucleotide is useful
CC in molecular biology, including uses as hybridisation probes, in
CC chromosome and gene mapping, in generating antisense RNA and DNA, and in
CC gene therapy. The polynucleotide may also be used in preparing PRO
CC polypeptides by recombinant techniques, and in generating either
CC transgenic animals or knock-out animals which, in turn, are useful in the
CC development and screening of therapeutically useful reagents. The PRO
CC polypeptide or the antibody is used in preparing a medicament for
CC treating a condition responsive to the polypeptide or antibody, such as
CC mucosal lesions e.g. ulcers and enterocolitis, skin disease e.g.
CC psoriasis, cancer e.g. lung cancer and colon cancer, nerve cell disease
CC e.g. Alzheimer's disease and Parkinson's disease, Usher syndrome,
CC atrophila areata, angiogenesis, inflammatory disease e.g asthma and
CC rheumatoid arthritis, ischaemia, and in various diagnostic assays. The
CC present sequence represents the amino acid sequence of a PRO polypeptide
XX
XX Sequence 696 AA;
SQ

Query Match 56.8%; Score 42; DB 6; Length 696;
Best Local Similarity 63.6%; Pred. NO. 67;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALSKINLHN 14
|:|:|:|:|:|
Db 493 GVSLSKLSLHN 503

RESULT 32
ABO14880
ID ABO14880 standard; protein; 696 AA.
XX
XX ABO14880;
AC
DT 25-AUG-2003 (first entry)
XX
XX Human secreted / transmembrane polypeptide PRO266.
DE
XX Human; gene therapy; tumour; tissue typing; obesity; arthritis; diabetes;
KW hypocalcaemia; hyperinsulinaemia; vascular permeability;
KW cardiac insufficiency disorder; immune response; regeneration; cartilage;
KW auditory hair cell; hearing loss; bone disorder; sports injury.
XX
XX Homo sapiens.
OS
XX US2003036060-A1.
PN
XX 20-FEB-2003.
PD
XX
XX 12-JUL-2001; 2001US-00904859.
PF
XX
XX 17-SEP-1997; 97US-0059113P.
PR
XX 17-SEP-1997; 97US-0059113P.
PR
XX 17-SEP-1997; 97US-0059117P.
PR
XX 17-SEP-1997; 97US-0059119P.
PR
XX 17-SEP-1997; 97US-0059121P.
PR
XX 17-SEP-1997; 97US-0059122P.
PR
XX 17-SEP-1997; 97US-0059184P.
PR
XX 18-SEP-1997; 97US-0059263P.
PR
XX 18-SEP-1997; 97US-0059266P.
PR
XX 15-OCT-1997; 97US-0062125P.
PR
XX 17-OCT-1997; 97US-0062285P.
PR
XX 17-OCT-1997; 97US-0062387P.
PR
XX 21-OCT-1997; 97US-0063486P.
PR
XX 24-OCT-1997; 97US-0062816P.
PR
XX 24-OCT-1997; 97US-0063045P.
PR
XX 24-OCT-1997; 97US-0063120P.
PR
XX 24-OCT-1997; 97US-0063121P.
PR
XX 24-OCT-1997; 97US-0063127P.
PR
XX 24-OCT-1997; 97US-0063128P.
PR
XX 27-OCT-1997; 97US-0063327P.
PR
XX 27-OCT-1997; 97US-0063329P.
PR
XX 28-OCT-1997; 97US-0063541P.
PR
XX 28-OCT-1997; 97US-0063542P.
PR
XX 28-OCT-1997; 97US-0063544P.
PR
XX 28-OCT-1997; 97US-0063549P.
PR
XX 28-OCT-1997; 97US-0063550P.
PR
XX 28-OCT-1997; 97US-0063564P.
PR
XX 29-OCT-1997; 97US-0063435P.
PR
XX 29-OCT-1997; 97US-0063704P.
PR
XX 29-OCT-1997; 97US-0063732P.
PR
XX 29-OCT-1997; 97US-0063734P.
PR
XX 29-OCT-1997; 97US-0063735P.
PR
XX 29-OCT-1997; 97US-0063738P.
PR
XX 29-OCT-1997; 97US-0064215P.
PR
XX 31-OCT-1997; 97US-0063870P.
PR
XX 31-OCT-1997; 97US-0064103P.
PR
XX 03-NOV-1997; 97US-0064248P.
PR
XX 07-NOV-1997; 97US-0064809P.
PR
XX 12-NOV-1997; 97US-0065186P.
PR
XX 17-NOV-1997; 97US-0065846P.
PR
XX 18-NOV-1997; 97US-0065693P.
PR
XX 21-NOV-1997; 97US-0066120P.
PR
XX 21-NOV-1997; 97US-0066364P.
PR
XX 24-NOV-1997; 97US-0066453P.
PR
XX 24-NOV-1997; 97US-0066456P.
PR
XX 24-NOV-1997; 97US-0066511P.
PR
XX 24-NOV-1997; 97US-0066770P.
PR
XX 24-NOV-1997; 97US-0066772P.
PR
XX 25-NOV-1997; 97US-0066840P.
PR
XX 12-DEC-1997; 97US-0069425P.
PR
XX 04-JUN-1998; 98US-0088026P.
PR
XX 10-SEP-1998; 98US-0039803P.
PR
XX 10-SEP-1998; 98US-0100262P.
PR
XX 14-SEP-1998; 98US-0100262P.
PR
XX 16-SEP-1998; 98US-0100262P.
PR
XX 16-SEP-1998; 98US-0100262P.
PR
XX 17-SEP-1998; 98US-0100858P.
PR
XX 17-SEP-1998; 98US-0100858P.
PR
XX 13-OCT-1998; 98US-0104080P.
PR
XX 20-NOV-1998; 98US-0109304P.
PR
XX 01-DEC-1998; 98US-0109304P.
PR
XX 22-DEC-1998; 98US-0113296P.
PR
XX 07-JUL-1999; 99US-0143048P.
PR
XX 26-JUL-1999; 99US-0145698P.
PR
XX 28-JUL-1999; 99US-0146222P.
PR
XX 08-SEP-1999; 99US-0146222P.
PR
XX 13-SEP-1999; 99US-0146222P.
PR
XX 15-SEP-1999; 99US-0146222P.
PR
XX 15-SEP-1999; 99US-0146222P.
PR
XX 05-OCT-1999; 99US-0146222P.
PR
XX 29-NOV-1999; 99US-0146222P.
PR
XX 30-NOV-1999; 99US-0146222P.
PR
XX 01-DEC-1999; 99US-0146222P.
PR
XX 02-DEC-1999; 99US-0146222P.
PR
XX 16-DEC-1999; 99US-0146222P.
PR
XX 20-DEC-1999; 99US-0146222P.
PR
XX 05-JAN-2000; 2000US-0000219.
PR
XX 11-FEB-2000; 2000US-0003565.

PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US003841.
PR 20-MAR-2000; 2000WO-US007377.
PR 20-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00665350.
XX (GETH) GENENTECH INC.
XX Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI Williams EM, Wood WI;
XX WPI; 2003-417923/39.
DR N-PSDB; ACD20079.
XX Novel secreted and transmembrane polypeptide for modulating biological
PT activity of cell expressing the polypeptide, identifying agonists or
PT antagonists of polypeptide, and as molecular weight markers.
XX Claim 12; Fig 34; 469pp; English.
PS The invention relates to an isolated, secreted and transmembrane
CC polypeptide, termed PRO polypeptide. The polypeptide is useful for
CC identifying agonists or antagonists of the polypeptide, for preparing
CC variants of the polypeptide, as molecular weight markers, for protein
CC electrophoresis purposes and the nucleic acid is useful for recombinantly
CC expressing those markers. The polypeptide is also useful as therapeutic
CC agent. PRO is useful in assays to identify other proteins or molecules
CC involved in binding interaction. The nucleic acid is useful as
CC hybridisation probes, in chromosome and gene mapping, in generation of
CC antisense RNA and DNA, in the preparation of PRO polypeptide, for
CC generating transgenic animals or knockout animals which in turn are
CC useful in the development and screening of therapeutically useful
CC reagents, to construct hybridisation probes for mapping the gene which
CC encodes the PRO and for the genetic analysis of individuals with genetic
CC disorders, in gene therapy, for chromosome identification, as chromosome
CC marker, and for generating probes for polymerase chain reaction (PCR).
CC Northern analysis, Southern analysis and Western analysis. PRO antibody
CC is useful in diagnostic assays for PRO, e.g. detecting its expression in
CC specific cells, tissues or serum and for affinity purification of PRO
CC from recombinant cell culture or natural sources. The polypeptide or its
CC antibody is useful for the preparation of medicament for treating
CC conditions which is responsive to the PRO polypeptide or anti-PRO
CC antibody e.g. tumour. The polypeptide and the nucleic acid is useful for
CC tissue typing. The polypeptide is useful for treating obesity, diabetes
CC or hypo- or hyper-insulinaemia and cardiac insufficiency disorders, for
CC inhibiting tumour growth, enhances vascular permeability and immune
CC response, for inducing regeneration of auditory hair cells and for
CC treating hearing loss in mammals and for treating bone and/or cartilage
CC disorders such as sports injuries and arthritis. The present sequence
CC represents the amino acid sequence of a human secreted and transmembrane
CC PRO polypeptide
XX
SQ Sequence 696 AA;

Query Match 56.8%; Score 42; DB 6; Length 696;
Best Local Similarity 63.6%; Pred. No. 67;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY 4 GVALSKINLN 14
:::|||||
Db 493 GVSLSKSLHN 503

RESULT 33
ABU67022

ID ABU67022 standard; protein; 696 AA.
XX
AC ABU67022;
XX
DT 27-MAY-2003 (first entry)
XX
DE Human secreted/transmembrane, PRO, protein SEQ ID 354.
XX
KW Human; secreted protein; transmembrane protein; PRO;
KW inflammatory disease; organ failure; atherosclerosis; cardiac injury;
KW infertility; birth defects; premature aging; AIDS; biosensor;
KW acquired immunodeficiency syndrome; cancer; diabetic complication;
KW bioreactor; tumour.
XX
OS Homo sapiens.
XX
PN US2003032155-A1.
XX
PD 13-FEB-2003.
XX
PF 03-MAY-2002; 2002US-00137865.
XX
PR 31-MAR-1997; 97WO-US005230.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 16-SEP-1998; 98WO-US019177.
PR 17-SEP-1998; 98WO-US019330.
PR 07-OCT-1998; 98WO-US019437.
PR 29-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 05-OCT-1999; 99WO-US021547.
PR 29-NOV-1999; 99WO-US023089.
PR 30-NOV-1999; 99WO-US026214.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 22-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.

02-MAR-2000; 2000WO-US005746.
02-MAR-2000; 2000WO-US005841.
10-MAR-2000; 2000WO-US006319.
15-MAR-2000; 2000WO-US006884.
20-MAR-2000; 2000WO-US007377.
21-MAR-2000; 2000WO-US007532.
30-MAR-2000; 2000WO-US008439.
30-MAR-2000; 2000WO-US013705.
17-MAY-2000; 2000WO-US014042.
22-MAY-2000; 2000WO-US014941.
30-MAY-2000; 2000WO-US015264.
02-JUN-2000; 2000WO-US020710.
28-JUL-2000; 2000WO-US020731.
11-AUG-2000; 2000WO-US023522.
23-AUG-2000; 2000WO-US023328.
24-AUG-2000; 2000WO-US030952.
08-NOV-2000; 2000WO-US030952.
10-NOV-2000; 2000WO-US030873.
01-DEC-2000; 2000WO-US032678.
20-DEC-2000; 2000US-00747259.
20-DEC-2000; 2000WO-US034956.
28-FEB-2001; 2001US-00796498.
28-FEB-2001; 2001WO-US006520.
01-MAR-2001; 2001WO-US006666.
09-MAR-2001; 2001US-00802706.
14-MAR-2001; 2001US-00808689.
22-MAR-2001; 2001US-00816744.
05-APR-2001; 2001US-00828366.
10-MAY-2001; 2001US-00854208.
10-MAY-2001; 2001US-00854280.
18-MAY-2001; 2001US-00860216.
25-MAY-2001; 2001US-00866028.
25-MAY-2001; 2001US-00866034.
25-MAY-2001; 2001WO-US017092.
01-JUN-2001; 2001US-00872035.
01-JUN-2001; 2001WO-US017800.
05-JUN-2001; 2001US-00874503.
14-JUN-2001; 2001US-00882636.
19-JUN-2001; 2001US-00886342.
20-JUN-2001; 2001WO-US019692.
21-JUN-2001; 2001US-00887879.
22-JUN-2001; 2001WO-US020116.
29-JUN-2001; 2001WO-US021066.
09-JUL-2001; 2001WO-US021735.
18-JUL-2001; 2001US-00908827.
06-AUG-2001; 2001US-00924419.
09-AUG-2001; 2001US-00927796.
16-AUG-2001; 2001US-00931836.
19-DEC-2001; 2001US-00028072.

(GETH) GENENTECH INC.
Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
WPI; 2003-331925/31.
N-PSDB; ACA04200.

New secreted and transmembrane nucleic acids and polypeptides, designated
as PRO, useful for treating inflammation, organ failure, atherosclerosis,
cardiac injury, infertility, birth defects, premature aging, AIDS, or
cancer.

Claim 12; Fig 354; 659pp; English.

The invention relates to an isolated nucleic acid comprising, or which is
at least 80% identical to, or the full-length coding sequence of, any of
the 275 nucleotide sequences, encoding the corresponding PRO polypeptide
(one of 275 secreted or transmembrane proteins). The nucleic acid further
comprises the full-length coding sequence of the DNA deposited under
American Type Culture Collection (ATCC) accession number in a list given
in the specification. Also included are vectors and host cells for
producing PRO proteins, PRO fusion proteins, anti-PRO antibodies, PRO

CC extracellular domains and mature sequences, methods of detecting PRO
CC proteins, methods for stimulating the release of TNF-alpha (tumour
CC necrosis factor alpha) from human blood, (and the proliferation of
CC differentiation of chondrocyte cells, the proliferation of, or gene
CC expression in pericyte cells, the release or proteoglycans from
CC cartilage, proliferation of inner ear articular supporting cells, the
CC proliferation of T-lymphocyte cells (PBMC), or the proliferation of
CC peripheral blood mononuclear cells (PBMC), or the uptake of glucose or free
CC fatty acid (FFA) by skeletal muscle cells, a method for inhibiting the
CC binding of A-peptide to factor VIIA, or the differentiation of adipocyte
CC cells, a method for detecting the presence of a tumour in a mammal and an
CC oligonucleotide probe derived from any of the nucleotide sequences cited
CC above. The nucleic acids and polypeptides are useful for treating
CC inflammatory diseases, organ failure, atherosclerosis, cardiac injury,
CC infertility, birth defects, premature aging, AIDS (acquired
CC immunodeficiency syndrome), cancer, or diabetic complications. The
CC nucleic acids are useful as hybridisation probes, in chromosome and gene
CC mapping, and in generating antisense RNA or DNA. The polypeptides are
CC useful as pharmaceuticals, diagnostics, biosensors or bioreactors. Both
CC are useful in tissue typing. The present sequence represents a PRO
CC protein of the invention
XX
SQ Sequence 696 AA;

Query Match 56.8%; Score 42; DB 6; Length 696;
Best Local Similarity 63.6%; Pred. No. 67;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14
| : | | | : | | |
Db 493 GVSLSKLSLHN 503

RESULT 34

ABU69637
ID ABU69637 standard; protein; 696 AA.

XX AC ABU69637;

XX DT 05-JUN-2003 (first entry)

XX DE Novel human secreted and transmembrane protein PRO266.

XX KW Human; secreted and transmembrane protein; gene therapy; psoriasis;
KW enterocolitis; gastrointestinal ulceration; skin disease;
KW keratinocyte differentiation; epithelial cancer; Alzheimer's disease;
KW squamous cell carcinoma; Parkinson's disease; inflammatory disease;
KW amyotrophic lateral sclerosis; rheumatoid arthritis; asthma;
KW multiple sclerosis; organ failure; atherosclerosis; cardiac injury;
KW infertility; birth defect; premature aging; AIDS; cancer;
KW diabetic complication; wound repair; tissue re-growth.

XX OS Homo sapiens.

XX PN US2003017463-A1.

XX PD 23-JAN-2003.

XX PF 11-JUL-2001; 2001US-00903640.

XX PR 17-SEP-1997; 97US-0059113P.

XX PR 17-SEP-1997; 97US-0059113P.

XX PR 17-SEP-1997; 97US-0059113P.

XX PR 17-SEP-1997; 97US-0059121P.

XX PR 17-SEP-1997; 97US-0059122P.

XX PR 18-SEP-1997; 97US-0059184P.

XX PR 18-SEP-1997; 97US-0059263P.

XX PR 15-OCT-1997; 97US-0062125P.

XX PR 17-OCT-1997; 97US-0062285P.

XX PR 17-OCT-1997; 97US-0062287P.

PR 21-OCT-1997; 97US-0663486P.
 PR 24-OCT-1997; 97US-0662814P.
 PR 24-OCT-1997; 97US-0662816P.
 PR 24-OCT-1997; 97US-0663045P.
 PR 24-OCT-1997; 97US-0663120P.
 PR 24-OCT-1997; 97US-0663121P.
 PR 24-OCT-1997; 97US-0663127P.
 PR 24-OCT-1997; 97US-0663128P.
 PR 27-OCT-1997; 97US-0663327P.
 PR 27-OCT-1997; 97US-0663329P.
 PR 28-OCT-1997; 97US-0663541P.
 PR 28-OCT-1997; 97US-0663542P.
 PR 28-OCT-1997; 97US-0663544P.
 PR 28-OCT-1997; 97US-0663549P.
 PR 28-OCT-1997; 97US-0663550P.
 PR 28-OCT-1997; 97US-0663564P.
 PR 28-OCT-1997; 97US-0663435P.
 PR 28-OCT-1997; 97US-0663704P.
 PR 29-OCT-1997; 97US-0663712P.
 PR 29-OCT-1997; 97US-0663734P.
 PR 29-OCT-1997; 97US-0663735P.
 PR 29-OCT-1997; 97US-0663738P.
 PR 29-OCT-1997; 97US-0664215P.
 PR 31-OCT-1997; 97US-0664103P.
 PR 03-NOV-1997; 97US-0664248P.
 PR 07-NOV-1997; 97US-0664809P.
 PR 12-NOV-1997; 97US-0665186P.
 PR 17-NOV-1997; 97US-0665846P.
 PR 18-NOV-1997; 97US-0665693P.
 PR 21-NOV-1997; 97US-0666120P.
 PR 21-NOV-1997; 97US-0666364P.
 PR 24-NOV-1997; 97US-0666453P.
 PR 24-NOV-1997; 97US-0666466P.
 PR 24-NOV-1997; 97US-0666511P.
 PR 24-NOV-1997; 97US-0666770P.
 PR 24-NOV-1997; 97US-0666772P.
 PR 25-NOV-1997; 97US-0666840P.
 PR 12-DEC-1997; 97US-0669425P.
 PR 04-JUN-1998; 98US-0088026P.
 PR 10-SEP-1998; 98US-0099803P.
 PR 10-SEP-1998; 98WO-US018824.
 PR 14-SEP-1998; 98US-0100262P.
 PR 14-SEP-1998; 98WO-US019177.
 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98US-0100858P.
 PR 17-SEP-1998; 98WO-US019437.
 PR 13-OCT-1998; 98US-0104080P.
 PR 20-NOV-1998; 98US-0109304P.
 PR 01-DEC-1998; 98WO-US025108.
 PR 22-DEC-1998; 98US-0113296P.
 PR 07-JUL-1999; 99US-0143048P.
 PR 26-JUL-1999; 99US-0145698P.
 PR 28-JUL-1999; 99US-0146222P.
 PR 08-SEP-1999; 99WO-US020594.
 PR 13-SEP-1999; 99WO-US020944.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 05-OCT-1999; 99WO-US023089.
 PR 28-NOV-1999; 99WO-US028214.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028301.
 PR 02-DEC-1999; 99WO-US028564.
 PR 02-DEC-1999; 99WO-US028565.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 20-DEC-1999; 99WO-US030999.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 20-MAR-2000; 2000WO-US007377.

PR 30-MAR-2000; 2000WO-US008439.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 18-SEP-2000; 2000US-00665350.
 XX (GETH) GENENTECH INC.
 PA 97US-0663128P.
 XX 97US-0663327P.
 PI Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
 PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
 PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kiljavin IJ;
 PI Mather JP, Pan J, Paoni NF, Roy NA, Stewart TA, Tumas D;
 PI Williams PM, Wood WI;
 XX WPI: 2003-341586/32.
 DR N-PSDB; ACA54882.
 XX New PRO polypeptides and nucleic acid molecules, useful in diagnosing or
 PT treating inflammatory diseases, organ failure, atherosclerosis, cardiac
 PT injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's
 PT disease.
 XX Claim 12; Fig 34; 473pp; English.
 XX The invention describes sixty one nucleic acids encoding PRO polypeptides
 CC (secreted and transmembrane). The PRO polypeptides and nucleic acids are
 CC useful in diagnosing or treating enterocolitis, gastrointestinal
 CC ulceration, skin diseases associated with abnormal keratinocyte
 CC differentiation, e.g. psoriasis or epithelial cancers such as squamous
 CC cell carcinoma, Alzheimer's disease, Parkinson's disease, amyotrophic
 CC lateral sclerosis, inflammatory diseases, e.g. rheumatoid arthritis,
 CC asthma or multiple sclerosis, organ failure, atherosclerosis, cardiac
 CC injury, infertility, birth defects, premature aging, AIDS, cancer,
 CC diabetic complications, or mutations in general. The polypeptides are
 CC also useful for wound repair and associated therapies concerned with re-
 CC growth of tissue. The PRO polypeptides and nucleic acid molecules are
 CC also useful in gene therapy, and as molecular weight markers for protein
 CC electrophoresis purposes. The anti-PRO antibodies may be used in
 CC diagnostic assays for PRO, or for the affinity purification of PRO from
 CC recombinant cell culture or natural sources. This is the amino acid
 CC sequence of a novel human PRO polypeptide
 XX Sequence 696 AA;
 SQ Query Match 56.8%; Score 42; DB 6; Length 696;
 Best Local Similarity 63.6%; Fred. No. 67;
 Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 QY 4 GWALSKINLHN 14
 Db 493 GVSLSKLSLHN 503
 RESULT 35
 ABO14819
 ID ABO14819 standard; protein; 696 AA.
 XX ABO14819;
 AC ABO14819;
 XX 22-AUG-2003 (first entry)
 DT Human secreted / transmembrane polypeptide PRO266.
 DE Human; ss; gene therapy; apoptosis; bleeding; tumour; ALS;
 XX Gynaecological disease; hysterectomy; angiogenesis; skin disease; cancer;
 KW coronary ischaemic condition; gastrointestinal mucosa disorder; asthma;
 KW mucosal lesion repair; keratinocyte differentiation; psoriasis;
 KW Parkinson's disease; Alzheimer's disease; amyotrophic lateral sclerosis;
 KW neuropathy; blood coagulation cascade disorder; thrombosis; haemorrhage;
 KW neurodegenerative disease; endometrial bleeding; wound healing;
 KW tissue repair; rheumatoid arthritis; multiple sclerosis; tissue typing.
 XX

OS	Homo sapiens.		
XX	US2003027143-A1.		
PN	06-FEB-2003.		
XX			
XX	16-JUL-2001; 2001US-00906838.		
XX	17-SEP-1997; 97US-0059113P.		
XX	17-SEP-1997; 97US-0059115P.		
PR	17-SEP-1997; 97US-0059117P.		
PR	17-SEP-1997; 97US-0059119P.		
PR	17-SEP-1997; 97US-0059121P.		
PR	17-SEP-1997; 97US-0059122P.		
PR	17-SEP-1997; 97US-0059184P.		
PR	18-SEP-1997; 97US-0059263P.		
PR	18-SEP-1997; 97US-0059266P.		
PR	15-OCT-1997; 97US-0062125P.		
PR	17-OCT-1997; 97US-0062285P.		
PR	17-OCT-1997; 97US-0062287P.		
PR	21-OCT-1997; 97US-0063486P.		
PR	24-OCT-1997; 97US-0062814P.		
PR	24-OCT-1997; 97US-0063329P.		
PR	28-OCT-1997; 97US-0063541P.		
PR	28-OCT-1997; 97US-0063542P.		
PR	28-OCT-1997; 97US-0063544P.		
PR	28-OCT-1997; 97US-0063549P.		
PR	28-OCT-1997; 97US-0063550P.		
PR	28-OCT-1997; 97US-0063564P.		
PR	29-OCT-1997; 97US-0063435P.		
PR	29-OCT-1997; 97US-0063704P.		
PR	29-OCT-1997; 97US-0063732P.		
PR	29-OCT-1997; 97US-0063734P.		
PR	29-OCT-1997; 97US-0063735P.		
PR	29-OCT-1997; 97US-0063738P.		
PR	29-OCT-1997; 97US-0064215P.		
PR	31-OCT-1997; 97US-0063870P.		
PR	31-OCT-1997; 97US-0064103P.		
PR	03-NOV-1997; 97US-0064248P.		
PR	07-NOV-1997; 97US-0064809P.		
PR	12-NOV-1997; 97US-0065186P.		
PR	17-NOV-1997; 97US-0065846P.		
PR	18-NOV-1997; 97US-0065693P.		
PR	21-NOV-1997; 97US-0066120P.		
PR	21-NOV-1997; 97US-0066364P.		
PR	24-NOV-1997; 97US-0066453P.		
PR	24-NOV-1997; 97US-0066466P.		
PR	24-NOV-1997; 97US-0066511P.		
PR	24-NOV-1997; 97US-0066770P.		
PR	24-NOV-1997; 97US-0066772P.		
PR	25-NOV-1997; 97US-0066840P.		
PR	12-DEC-1997; 97US-0069425P.		
PR	04-JUN-1998; 98US-0088026P.		
PR	10-SEP-1998; 98US-0098003P.		
PR	10-SEP-1998; 98WO-05018824.		
PR	14-SEP-1998; 98US-0100262P.		
PR	14-SEP-1998; 98WO-05019177.		
PR	16-SEP-1998; 98WO-05019330.		
PR	17-SEP-1998; 98US-0100858P.		
PR	17-SEP-1998; 98WO-05019437.		
PR	13-OCT-1998; 98US-0104080P.		
PR	20-NOV-1998; 98US-0109304P.		
PR	01-DEC-1998; 98WO-05025108.		
PR	22-DEC-1998; 98US-0113296P.		
PR	07-JUL-1999; 99US-0143048P.		
PR	26-JUL-1999; 99US-0145698P.		
PR			
PR	28-JUL-1999; 99US-0146222P.		
PR	08-SEP-1999; 99WO-US020594.		
PR	13-SEP-1999; 99WO-US020944.		
PR	15-SEP-1999; 99WO-US021090.		
PR	15-SEP-1999; 99WO-US021547.		
PR	05-OCT-1999; 99WO-US023089.		
PR	29-NOV-1999; 99WO-US028214.		
PR	30-NOV-1999; 99WO-US028313.		
PR	01-DEC-1999; 99WO-US028301.		
PR	02-DEC-1999; 99WO-US028564.		
PR	02-DEC-1999; 99WO-US028565.		
PR	16-DEC-1999; 99WO-US030095.		
PR	20-DEC-1999; 99WO-US030911.		
PR	20-DEC-1999; 99WO-US030999.		
PR	05-JAN-2000; 2000WO-US000219.		
PR	11-FEB-2000; 2000WO-US003565.		
PR	22-FEB-2000; 2000WO-US004414.		
PR	24-FEB-2000; 2000WO-US005004.		
PR	02-MAR-2000; 2000WO-US005841.		
PR	20-MAR-2000; 2000WO-US007377.		
PR	30-MAR-2000; 2000WO-US008439.		
PR	22-MAY-2000; 2000WO-US014042.		
PR	02-JUN-2000; 2000WO-US015264.		
PR	28-JUL-2000; 2000WO-US020710.		
PR	24-AUG-2000; 2000WO-US023328.		
PR	18-SEP-2000; 2000US-00665350.		
XX			
PA	(GETH) GENENTECH INC.		
XX			
PI	Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;		
PI	Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;		
PI	Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;		
PI	Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;		
PI	Williams PM, Wood WI;		
XX	WPI; 2003-417249/39.		
DR	N-PSDB; ACD19717.		
XX			
PT	Novel secreted and transmembrane polypeptides and polynucleotides		
PT	encoding them useful for treating abnormal bleeding involved in		
PT	gynecological diseases, skin diseases and neurodegenerative diseases.		
XX	Claim 12; Fig 34; 467pp; English.		
XX			
CC	The invention relates to an isolated secreted and transmembrane PRO		
CC	polypeptide. The PRO polypeptides are useful for modulating biological		
CC	activity of a cell, in diagnosing or treating abnormal bleeding involved		
CC	in gynaecological diseases e.g. to avoid or lessen the need for		
CC	hysterectomy, for treating angiogenesis, tumour, coronary ischaemic		
CC	condition, disorders associated with the preservation and maintenance of		
CC	gastrointestinal mucosa and the repair of acute and chronic mucosal		
CC	lesions, skin diseases associated with abnormal keratinocyte		
CC	differentiation (e.g. psoriasis), Parkinson's disease, Alzheimer's		
CC	disease, amyotrophic lateral sclerosis (ALS), neuropathies, disease		
CC	related to uncontrolled cell growth (e.g. cancer), blood coagulation		
CC	cascade disorders, neurodegenerative disease, thrombosis, haemorrhage,		
CC	endometrial bleeding, wound healing, tissue repair, asthma, rheumatoid		
CC	arthritis, multiple sclerosis. Nucleic acid encoding PRO polypeptides are		
CC	useful in molecular biology including uses as hybridisation probes and in		
CC	the generation of antisense RNA and DNA, for preparing PRO polypeptides,		
CC	for generating transgenic animals or knockout animals. The PRO		
CC	polypeptides and their nucleic acids are useful for tissue typing. PRO		
CC	antibodies are useful for immunohistochemical staining and/or assay of		
CC	sample fluids. Anti-PRO antibodies are useful in diagnostic assays for		
CC	PRO e.g. detecting its expression in specific cells, tissues or serum and		
CC	for affinity purification of PRO from recombinant cell culture or natural		
CC	sources. The present sequence represents the amino acid sequence of a		
CC	human secreted and transmembrane PRO polypeptide		
XX	Sequence 696 AA;		
SQ			
	Query Match 56.8%; Score 42; DB 6; Length 696;		
	Best Local Similarity 63.6%; Pred. No. 67;		

Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GNALSKINLHN 14
|:||||:|

Db 493 GVSLSKLSLHN 503

RESULT 36

ADA45873 standard; protein; 696 AA.

ID ADA45873;

AC ADA45873;

DT 20-NOV-2003 (first entry)

DE Novel human secreted and transmembrane protein PRO266.

KW Human; secreted and transmembrane protein; PRO;
KW Tumour necrosis factor alpha release; TNF-alpha release;
KW Glucose uptake modulator; FFA uptake modulator;
KW cell proliferation stimulator; cell differentiation stimulator;
KW cell differentiation inhibitor; cytokine release stimulator; tumour;
KW lung tumour; colon tumour; breast tumour; prostate tumour; rectal tumour;
KW cervical tumour; liver tumour; chromosome mapping; gene mapping;
KW gene therapy; chromosome identification; chromosome marker.

OS Homo sapiens.

XX US2003022328-A1.

PN 30-JAN-2003.

XX 16-APR-2002; 2002US-00123904.

PR 31-MAR-1997; 97WO-US005230.

PR 12-JUN-1998; 98WO-US012456.

PR 14-JUL-1998; 98WO-US014552.

PR 28-AUG-1998; 98WO-US017888.

PR 10-SEP-1998; 98WO-US018824.

PR 14-SEP-1998; 98WO-US019093.

PR 14-SEP-1998; 98WO-US019094.

PR 16-SEP-1998; 98WO-US019177.

PR 17-SEP-1998; 98WO-US019330.

PR 07-OCT-1998; 98WO-US021141.

PR 29-OCT-1998; 98WO-US022991.

PR 29-OCT-1998; 98WO-US022992.

PR 20-NOV-1998; 98WO-US024855.

PR 01-DEC-1998; 98WO-US025108.

PR 05-JAN-1999; 99WO-US000106.

PR 08-MAR-1999; 99WO-US005028.

PR 10-MAR-1999; 99WO-US005190.

PR 20-APR-1999; 99WO-US008615.

PR 14-MAY-1999; 99WO-US010733.

PR 02-JUN-1999; 99WO-US012252.

PR 01-SEP-1999; 99WO-US020111.

PR 08-SEP-1999; 99WO-US020594.

PR 13-SEP-1999; 99WO-US020944.

PR 15-SEP-1999; 99WO-US021090.

PR 15-SEP-1999; 99WO-US021547.

PR 05-OCT-1999; 99WO-US023089.

PR 29-NOV-1999; 99WO-US028214.

PR 30-DEC-1999; 99WO-US031243.
PR 05-DEC-1999; 99WO-US031274.
PR 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 11-FEB-2000; 2000WO-US000376.
PR 18-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 21-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 10-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828368.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.

(GETH) GENENTECH INC.

Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;

WPI; 2003-584997/55.
N-PSDB; ADA45872.

Novel secreted and transmembrane polypeptide for modulating biological
activity of cell expressing the polypeptide, identifying agonists or
antagonists of polypeptide, and as molecular weight markers.

XX Claim 12; Fig 354; 659pp; English.

XX The invention describes 305 nucleic acids encoding PRO (secreted and

XX transmembrane) polypeptides (I). (I) is useful for stimulating the

CC release of TNF-alpha from human blood, for modulating the uptake of

CC glucose or FFA by skeletal muscle cells or adipocyte cells, for

CC stimulating the proliferation or differentiation of chondrocyte cells,

CC for stimulating the proliferation of or gene expression in pericyte

CC cells, for stimulating the release of proteoglycans from cartilage, for

CC stimulating the proliferation of inner ear utricular supporting cells,

CC for stimulating the proliferation of T-lymphocyte cells, for stimulating

CC the release of a cytokine from PBM cells, for inhibiting the binding of

CC A-peptide to factor VIIa, for inhibiting the differentiation of adipocyte

CC cells, for stimulating proliferation of endothelial cells, for detecting

CC the presence of tumour in a mammal. The tumour is lung, colon, breast,

CC prostate, rectal, cervical or liver tumour. The oligonucleotide probes

CC are useful for isolating genomic and cDNA nucleotide sequences or

CC antisense probes. (I) is also useful as therapeutic agent. PRO is useful

CC in assays to identify other proteins or molecules involved in binding

CC and gene mapping, in generation of antisense RNA and DNA, in the

CC preparation of PRO polypeptide, for generating transgenic animals or

CC knockout animals which in turn are useful in the development and

CC screening of therapeutically useful reagents, in gene therapy, for

CC chromosome identification, as chromosome marker, and for generating

CC probes. An anti-(I)-antibody is useful in diagnostic assays for PRO, e.g.

CC detecting its expression in specific cells, tissues or serum, and for

CC affinity purification of PRO from recombinant cell culture or natural

CC sources. (I) and (II) are useful for tissue typing. This is the amino

CC acid sequence of a novel human secreted and transmembrane PRO

XX polypeptide.

XX Sequence 696 AA;

QY Query Match 56.8%; Score 42; DB 6; Length 696;

Db Best Local Similarity 63.6%; Pred. No. 67;

Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMAISKINLHN 14

Db 493 GVSLSKLSLHN 503

RESULT 37

ADA76304

ID ADA76304 standard; protein; 696 AA.

XX AC ADA76304;

XX DT 20-NOV-2003 (first entry)

XX DE Human PRO polypeptide #177.

XX KW Human; PRO; secreted polypeptide; transmembrane polypeptide;

KW tumour necrosis factor-alpha; TNF-alpha; chondrocyte cell; tumour;

KW cancer; adrenal; lung; colon; breast; prostate; rectum; kidney; cervix;

KW liver; microvascular endothelial cell; glucose; FFA;

KW skeletal muscle cell; adipocyte cell; pericyte cell;

KW inner ear utricular supporting cell; T-lymphocyte cell;

KW endothelial cell tube formation; bone disorder; cartilage disorder;

KW sports injury; proteoglycan; articular cartilage defect; osteoarthritis;

KW rheumatoid arthritis; haemoglobin-associated disorder thalassaemia;

KW immune system cell infiltration.

XX OS Homo sapiens.

XX US2003073212-A1.

XX PD 17-APR-2003.

XX PF 16-APR-2002; 2002US-00123903.

XX

PR 31-MAR-1997; 97WO-US005230.

PR 12-JUN-1998; 98WO-US012456.

PR 14-JUL-1998; 98WO-US014552.

PR 28-AUG-1998; 98WO-US017888.

PR 10-SEP-1998; 98WO-US018824.

PR 14-SEP-1998; 98WO-US019093.

PR 14-SEP-1998; 98WO-US019094.

PR 14-SEP-1998; 98WO-US019177.

PR 16-SEP-1998; 98WO-US019330.

PR 17-SEP-1998; 98WO-US019437.

PR 07-OCT-1998; 98WO-US021141.

PR 29-OCT-1998; 98WO-US022991.

PR 29-OCT-1998; 98WO-US022992.

PR 20-NOV-1998; 98WO-US024855.

PR 01-DEC-1998; 98WO-US025108.

PR 05-JAN-1999; 98WO-US000106.

PR 08-MAR-1999; 99WO-US005028.

PR 10-MAR-1999; 99WO-US005190.

PR 20-APR-1999; 99WO-US008615.

PR 14-MAY-1999; 99WO-US010733.

PR 02-JUN-1999; 99WO-US012252.

PR 01-SEP-1999; 99WO-US020111.

PR 08-SEP-1999; 99WO-US020594.

PR 13-SEP-1999; 99WO-US020944.

PR 15-SEP-1999; 99WO-US021090.

PR 05-OCT-1999; 99WO-US021547.

PR 29-NOV-1999; 99WO-US023089.

PR 30-NOV-1999; 99WO-US028214.

PR 30-NOV-1999; 99WO-US028313.

PR 01-DEC-1999; 99WO-US028409.

PR 01-DEC-1999; 99WO-US028301.

PR 02-DEC-1999; 99WO-US028634.

PR 02-DEC-1999; 99WO-US028551.

PR 02-DEC-1999; 99WO-US028564.

PR 16-DEC-1999; 99WO-US028565.

PR 20-DEC-1999; 99WO-US030095.

PR 20-DEC-1999; 99WO-US030911.

PR 22-DEC-1999; 99WO-US030999.

PR 30-DEC-1999; 99WO-US030720.

PR 30-DEC-1999; 99WO-US031243.

PR 05-JAN-2000; 99WO-US031274.

PR 06-JAN-2000; 2000WO-US000219.

PR 06-JAN-2000; 2000WO-US000277.

PR 11-FEB-2000; 2000WO-US000376.

PR 18-FEB-2000; 2000WO-US003565.

PR 18-FEB-2000; 2000WO-US004341.

PR 22-FEB-2000; 2000WO-US004342.

PR 24-FEB-2000; 2000WO-US004414.

PR 24-FEB-2000; 2000WO-US004914.

PR 01-MAR-2000; 2000WO-US005004.

PR 02-MAR-2000; 2000WO-US005601.

PR 02-MAR-2000; 2000WO-US005746.

PR 02-MAR-2000; 2000WO-US005841.

PR 10-MAR-2000; 2000WO-US006319.

PR 15-MAR-2000; 2000WO-US006884.

PR 20-MAR-2000; 2000WO-US007377.

PR 21-MAR-2000; 2000WO-US007532.

PR 30-MAR-2000; 2000WO-US008439.

PR 17-MAY-2000; 2000WO-US013705.

PR 22-MAY-2000; 2000WO-US014042.

PR 30-MAY-2000; 2000WO-US014941.

PR 02-JUN-2000; 2000WO-US015264.

PR 28-JUL-2000; 2000WO-US020710.

PR 11-AUG-2000; 2000WO-US022031.

PR 23-AUG-2000; 2000WO-US023522.

PR 24-AUG-2000; 2000WO-US023328.

PR 08-NOV-2000; 2000WO-US030952.

PR 10-NOV-2000; 2000WO-US030873.

PR 01-DEC-2000; 2000WO-US032678.

PR 20-DEC-2000; 2000US-00747259.

PR 20-DEC-2000; 2000WO-US034956.

PR 28-FEB-2001; 2001US-00796498.

PR 28-FEB-2001; 2001WO-US006520.

PR	29-OCT-1997;	97US-0063735P.
PR	29-OCT-1997;	97US-0063738P.
PR	29-OCT-1997;	97US-0064215P.
PR	31-OCT-1997;	97US-0063870P.
PR	31-OCT-1997;	97US-0064103P.
PR	03-NOV-1997;	97US-0064248P.
PR	07-NOV-1997;	97US-0064809P.
PR	12-NOV-1997;	97US-0065186P.
PR	17-NOV-1997;	97US-0065846P.
PR	18-NOV-1997;	97US-0065693P.
PR	21-NOV-1997;	97US-0066120P.
PR	21-NOV-1997;	97US-0066364P.
PR	24-NOV-1997;	97US-0066453P.
PR	24-NOV-1997;	97US-0066466P.
PR	24-NOV-1997;	97US-0066511P.
PR	24-NOV-1997;	97US-0066770P.
PR	24-NOV-1997;	97US-0066772P.
PR	25-NOV-1997;	97US-0066840P.
PR	12-DEC-1997;	97US-0069425P.
PR	04-JUN-1998;	98US-0088026P.
PR	10-SEP-1998;	98US-0099803P.
PR	10-SEP-1998;	98WO-US018824.
PR	14-SEP-1998;	98US-0100262P.
PR	14-SEP-1998;	98WO-US019177.
PR	16-SEP-1998;	98WO-US019330.
PR	17-SEP-1998;	98US-0100858P.
PR	17-SEP-1998;	98WO-US019437.
PR	13-OCT-1998;	98US-0104080P.
PR	20-NOV-1998;	98US-0109304P.
PR	01-DEC-1998;	98WO-US025108.
PR	22-DEC-1998;	98US-0113296P.
PR	07-JUL-1999;	99US-0143048P.
PR	26-JUL-1999;	99US-0145698P.
PR	28-JUL-1999;	99US-0146222P.
PR	08-SEP-1999;	99WO-US020594.
PR	13-SEP-1999;	99WO-US020944.
PR	15-SEP-1999;	99WO-US021090.
PR	15-SEP-1999;	99WO-US021547.
PR	05-OCT-1999;	99WO-US023089.
PR	29-NOV-1999;	99WO-US028214.
PR	30-NOV-1999;	99WO-US028313.
PR	01-DEC-1999;	99WO-US028301.
PR	02-DEC-1999;	99WO-US028564.
PR	16-DEC-1999;	99WO-US030095.
PR	20-DEC-1999;	99WO-US030911.
PR	20-DEC-1999;	99WO-US030999.
PR	05-JAN-2000;	2000WO-US000219.
PR	11-FEB-2000;	2000WO-US0003565.
PR	22-FEB-2000;	2000WO-US004414.
PR	24-FEB-2000;	2000WO-US005044.
PR	02-MAR-2000;	2000WO-US005841.
PR	20-MAR-2000;	2000WO-US007377.
PR	30-MAR-2000;	2000WO-US008439.
PR	22-MAY-2000;	2000WO-US014042.
PR	02-JUN-2000;	2000WO-US015264.
PR	28-JUL-2000;	2000WO-US020710.
PR	24-AUG-2000;	2000WO-US023328.
PR	18-SEP-2000;	2000US-00865350.
XX		
PA	(GETH) GENENTECH INC.	
XX		
PI	Askenazi A, Botstein D, Deenoyers L, Eaton DL, Ferrara N;	
PI	Filvaroff E, Fong S, Gao W, Garber H, Gerritsen ME, Goddard A;	
PI	Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin LJ;	
PI	Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;	
PI	Williams PM, Wood WI;	
XX		
DR	WPI, 2003-765473/72.	
DR	N-FSDB; ADB23295.	
XX		
PT	Novel isolated native PRO polypeptide useful for treating Parkinson's disease, enterocolitis, Zollinger-Ellison syndrome gastrointestinal	

colon; breast; prostate; rectum; cervix; liver; tumour; cancer;
glucose uptake; FFA; adipocyte cell; pericyte cell; proteoglycan;
cartilage; inner ear utricular supporting cell; cytokine; A-peptide;
factor VIIA; endothelial cell.

30-MAY-2000; 200WO-US014941.
02-JUN-2000; 200WO-US015264.
28-JUL-2000; 200WO-US020710.
11-AUG-2000; 200WO-US022031.
23-AUG-2000; 200WO-US023522.
24-AUG-2000; 200WO-US023328.
08-NOV-2000; 200WO-US030952.
10-NOV-2000; 200WO-US030873.
01-DEC-2000; 200WO-US032678.
20-DEC-2000; 200WO-US034956.
20-DEC-2000; 200WO-US034259.
28-FEB-2001; 200WO-US006520.
28-FEB-2001; 200WO-US006666.
01-MAR-2001; 200WO-US006666.
09-MAR-2001; 200WO-US006666.
14-MAR-2001; 200WO-US006666.
22-MAR-2001; 200WO-US006666.
05-APR-2001; 200WO-US006666.
10-MAY-2001; 200WO-US006666.
18-MAY-2001; 200WO-US006666.
25-MAY-2001; 200WO-US006666.
25-MAY-2001; 200WO-US006666.
01-JUN-2001; 200WO-US006666.
05-JUN-2001; 200WO-US006666.
14-JUN-2001; 200WO-US006666.
19-JUN-2001; 200WO-US006666.
21-JUN-2001; 200WO-US006666.
22-JUN-2001; 200WO-US006666.
29-JUN-2001; 200WO-US006666.
09-JUL-2001; 200WO-US006666.
18-JUL-2001; 200WO-US006666.
06-AUG-2001; 200WO-US006666.
09-AUG-2001; 200WO-US006666.
16-AUG-2001; 200WO-US006666.
19-DEC-2001; 200WO-US006666.
(GETH) GENENTECH INC.
Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;
Gerritsen ME, Goddard A, Godowski RJ, Gurney AL, Sherwood S;
Smith V, Stewart TA, Tamas D, Watanabe CK, Wood WI, Zhang Z;
WPI; 2003-521854/49.
N-PSDB; ADA18953.
New PRO nucleic acid, useful for preparing a composition for treating
e.g., tumors.
Claim 12; Fig 354; 660pp; English.
The invention relates to isolated human PRO polypeptides (secreted and
transmembrane polypeptides) and the polynucleotides encoding them. The
invention also relates to an antibody which specifically binds to a PRO
polypeptide, a method for stimulating the release of tumour necrosis
factor-alpha (TNF-alpha) from human blood, a method for stimulating the
proliferation or differentiation of chondrocyte cells and a method for
detecting the presence of a tumour in a mammal (e.g. lung, colon, breast,
prostate, rectal, cervical and liver tumours). The polynucleotides are
useful in molecular biology, including uses as hybridisation probes, in
chromosome and gene mapping, in generating antisense RNA and DNA and in
gene therapy. The polynucleotides may also be used in preparing PRO
polypeptides by recombinant techniques and in generating either
transgenic animals or knock-out animals which are useful in the
development and screening of therapeutically useful reagents. The PRO
polypeptides or antibodies are used in preparing a medicament for
treating a condition responsive to the polypeptides or antibodies, such
as tumours, for modulating the uptake of glucose or FFA by adipocyte
cells, for stimulating the proliferation of or gene expression in
pericyte cells, for stimulating the release of proteoglycans from

KW colon; breast; prostate; rectum; cervix; liver; tumour; cancer;
KW glucose uptake; FFA; adipocyte cell; pericyte cell; proteoglycan;
KW cartilage; inner ear utricular supporting cell; cytokine; A-peptide;
XX factor VIIA; endothelial cell.
OS Homo sapiens.
XX US2003054517-A1.
XX 20-MAR-2003.
XX 08-MAY-2002; 2002US-00141755.
XX 31-MAR-1997; 97WO-US005230.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012452.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020394.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 05-OCT-1999; 99WO-US021547.
PR 29-NOV-1999; 99WO-US023089.
PR 30-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 16-DEC-1999; 99WO-US028564.
PR 16-DEC-1999; 99WO-US028565.
PR 20-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 22-DEC-1999; 99WO-US030999.
PR 30-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 01-MAR-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 10-MAR-2000; 2000WO-US006884.
PR 15-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 21-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.

CC cartilage, for stimulating the proliferation of inner ear utricular
CC supporting cells, for stimulating the release of cytokines from PBMC
CC cells, for inhibiting the binding of A-peptide to factor VIIA, for
CC inhibiting the differentiation of adipocyte cells and for stimulating the
CC proliferation of endothelial cells. This sequence represents a human PRO
CC polypeptide of the invention. Note: The sequence data for this patent is
CC also available in electronic format from USPTO at
CC seqdata.uspto.gov/sequence.html.
XX
SQ Sequence 696 AA;

Query Match 56.8%; Score 42; DB 6; Length 696;
Best Local Similarity 63.6%; Pred. No. 67;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALSKINLHN 14
|:|:|:|:|:|
Db 493 GVSLSKLSLHN 503

RESULT 40
ADA61577
ID ADA61577 standard; protein; 696 AA.
AC ADA61577;
XX
XX 20-NOV-2003 (first entry)
DT XX
DE Homo sapiens.
XX
KW Human; secreted and transmembrane protein; PRO;
KW Tumour necrosis factor alpha release; TNF-alpha release;
KW Glucose uptake modulator; FFA uptake modulator;
KW cell proliferation stimulator; cell differentiation stimulator;
KW cell differentiation inhibitor; cytokine release stimulator; tumour;
KW lung tumour; colon tumour; breast tumour; prostate tumour; rectal tumour;
KW cervical tumour; liver tumour; chromosome mapping; gene mapping;
KW gene therapy; chromosome identification; chromosome marker.
XX
OS Novel.
OS human.
OS secreted.
OS and.
OS transmembrane.
OS protein.
OS PRO266.
XX
XX US2003049816-A1.
PN
XX
PD 13-MAR-2003.
XX
XX 15-APR-2002; 2002US-00123262.
XX
XX 31-MAR-1997; 97WO-US005230.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022992.
PR 29-OCT-1998; 98WO-US022991.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 08-MAR-1999; 99WO-US000106.
PR 05-JAN-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 22-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 10-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 18-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 01-JUN-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.

PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.
XX
PA (GETH) GENENTECH INC.
XX
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI: 2003-695892/66.
DR N-PSDB; ADA61576.
XX
XX
PT New PRO nucleic acid and encode polypeptides, are useful for
PT manufacturing a medicament for diagnosing or treating cancer.
XX
XX Claim 12; Fig 354; 660pp; English.
XX
CC The invention describes 305 nucleic acids encoding PRO (secreted and
CC transmembrane) polypeptides (I). (I) is useful for stimulating the
CC release of TNF-alpha from human blood, for modulating the uptake of
CC glucose or FFA by skeletal muscle cells or adipocyte cells, for
CC stimulating the proliferation or differentiation of chondrocyte cells,
CC for stimulating the proliferation of or gene expression in pericyte
CC cells, for stimulating the release of proteoglycans from cartilage, for
CC stimulating the proliferation of inner ear utricular supporting cells,
CC for stimulating the proliferation of T-lymphocyte cells, for stimulating
CC the release of a cytokine from PBMC cells, for inhibiting the binding of
CC A-peptide to factor VIIA, for inhibiting the differentiation of adipocyte
CC cells, for stimulating proliferation of endothelial cells, for detecting
CC the presence of tumour in a mammal. The tumour is lung, colon, breast,
CC prostate, rectal, cervical or liver tumour. The oligonucleotide probes
CC are useful for isolating genomic and cDNA nucleotide sequences or
CC antisense probes. (I) is also useful as therapeutic agent. PRO is useful
CC in assays to identify other proteins or molecules involved in binding
CC interaction. A polynucleotide (II) encoding (I) is useful in chromosome
CC and gene mapping, in generation of antisense RNA and DNA, in the
CC preparation of PRO polypeptide, for generating transgenic animals or
CC knockout animals which in turn are useful in the development and
CC screening of therapeutically useful reagents, in gene therapy, for
CC chromosome identification, as chromosome marker, and for generating
CC probes. An anti-(I)-antibody is useful in diagnostic assays for PRO, e.g.
CC detecting its expression in specific cells, tissues or serum, and for
CC affinity purification of PRO from recombinant cell culture or natural
CC sources. (I) and (II) are useful for tissue typing. This is the amino
CC acid sequence of a novel human secreted and transmembrane PRO
CC polypeptide.
XX
SQ Sequence 696 AA;
Query Match 56.8%; Score 42; DB 6; Length 696;
Best Local Similarity 63.6%; Pred. NO. 67;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 4 GMAISKINLHN 14
Db 493 GVSLSKSLHN 503
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Search completed: May 13, 2006, 08:10:06
Job time : 190 secs

GenCore version 5.1.8
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OM protein - protein search, using sw model

Run on: May 13, 2006, 08:25:22 ; Search time 164 Seconds
(without alignments)
35.668 Million cell updates/sec

Title: US-10-769-514-17

Perfect score: 74

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Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Published Applications AA Main:*

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- 2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	74	100.0	15	5	US-10-769-514-15
3	74	100.0	15	5	US-10-769-514-16
4	44	59.5	64	4	US-10-425-115-367739
5	43	58.1	71	4	US-10-424-599-250435
6	42	56.8	635	4	US-10-424-233-19
7	42	56.8	695	3	US-09-374-046A-132
8	42	56.8	695	4	US-10-616-263-132
9	42	56.8	696	3	US-09-909-320-91
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53	42	56.8	696	3	US-09-902-615-91	Sequence 91, Appl
54	42	56.8	696	3	US-09-903-925-91	Sequence 91, Appl
55	42	56.8	696	3	US-09-906-760A-91	Sequence 91, Appl
56	42	56.8	696	3	US-09-903-823-91	Sequence 91, Appl
57	42	56.8	696	3	US-09-907-652-91	Sequence 91, Appl
58	42	56.8	696	3	US-09-902-572A-91	Sequence 91, Appl
59	42	56.8	696	3	US-09-902-979-91	Sequence 91, Appl
60	42	56.8	696	3	US-09-905-125-91	Sequence 91, Appl
61	42	56.8	696	3	US-09-906-815A-91	Sequence 91, Appl
62	42	56.8	696	3	US-09-906-449-91	Sequence 91, Appl
63	42	56.8	696	3	US-09-903-806-91	Sequence 91, Appl
64	42	56.8	696	3	US-09-904-992-91	Sequence 91, Appl
65	42	56.8	696	3	US-09-904-838-91	Sequence 91, Appl
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69	42	56.8	696	3	US-09-904-766-91	Sequence 91, Appl
70	42	56.8	696	3	US-09-904-920A-91	Sequence 91, Appl
71	42	56.8	696	3	US-09-904-877A-91	Sequence 91, Appl
72	42	56.8	696	3	US-09-903-562-91	Sequence 91, Appl
73	42	56.8	696	3	US-09-906-618-91	Sequence 91, Appl
74	42	56.8	696	3	US-09-907-728-91	Sequence 91, Appl
75	42	56.8	696	3	US-09-904-805-91	Sequence 91, Appl
76	42	56.8	696	3	US-09-904-938A-91	Sequence 91, Appl
77	42	56.8	696	3	US-09-906-722A-91	Sequence 91, Appl
78	42	56.8	696	3	US-09-908-576-91	Sequence 91, Appl
79	42	56.8	696	4	US-10-028-072-354	Sequence 354, App
80	42	56.8	696	4	US-10-140-808-354	Sequence 354, App
81	42	56.8	696	4	US-10-121-049-354	Sequence 354, App
82	42	56.8	696	4	US-10-123-904-354	Sequence 354, App
83	42	56.8	696	4	US-10-140-470-354	Sequence 354, App
84	42	56.8	696	4	US-10-175-746-354	Sequence 354, App
85	42	56.8	696	4	US-10-176-921-354	Sequence 354, App
86	42	56.8	696	4	US-10-137-865-354	Sequence 354, App
87	42	56.8	696	4	US-10-140-474-354	Sequence 354, App
88	42	56.8	696	4	US-10-142-431-354	Sequence 354, App
89	42	56.8	696	4	US-10-143-114-354	Sequence 354, App
90	42	56.8	696	4	US-10-142-419-354	Sequence 354, App
91	42	56.8	696	4	US-10-123-262-354	Sequence 354, App
92	42	56.8	696	4	US-10-142-423-354	Sequence 354, App
93	42	56.8	696	4	US-10-121-050-354	Sequence 354, App
94	42	56.8	696	4	US-10-141-755-354	Sequence 354, App
95	42	56.8	696	4	US-10-143-032-354	Sequence 354, App
96	42	56.8	696	4	US-10-123-108-354	Sequence 354, App
97	42	56.8	696	4	US-10-123-236-354	Sequence 354, App
98	42	56.8	696	4	US-10-123-261-354	Sequence 354, App
99	42	56.8	696	4	US-10-140-921-354	Sequence 354, App
100	42	56.8	696	4		

ALIGNMENTS

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RESULT 1
US-10-769-514-17
; Sequence 17, Application US/10769514
; Publication No. US20040258695A1
; GENERAL INFORMATION:
; APPLICANT: Schryvers, Anthony
; TITLE OF INVENTION: Transferrin Binding Peptides and Uses Thereof
; FILE REFERENCE: 028722-001
; CURRENT APPLICATION NUMBER: US/10/769,514
; CURRENT FILING DATE: 2004-01-30
; PRIOR APPLICATION NUMBER: US 60/444,113
; PRIOR FILING DATE: 2003-01-31
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 14
; TYPE: PRT
; ORGANISM: M. catarrhalis
US-10-769-514-17

Query Match      100.0%; Score 74; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 2.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MGYGMALSKINLHN 14
Db      1 MGYGMALSKINLHN 14
|||||

RESULT 2
US-10-769-514-15
; Sequence 15, Application US/10769514
; Publication No. US20040258695A1
; GENERAL INFORMATION:
; APPLICANT: Schryvers, Anthony
; TITLE OF INVENTION: Transferrin Binding Peptides and Uses Thereof
; FILE REFERENCE: 028722-001
; CURRENT APPLICATION NUMBER: US/10/769,514
; CURRENT FILING DATE: 2004-01-30
; PRIOR APPLICATION NUMBER: US 60/444,113
; PRIOR FILING DATE: 2003-01-31
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 15
; TYPE: PRT
; ORGANISM: M. catarrhalis
US-10-769-514-15

Query Match      100.0%; Score 74; DB 5; Length 15;
Best Local Similarity 100.0%; Pred. No. 2.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MGYGMALSKINLHN 14
Db      1 MGYGMALSKINLHN 14
|||||

RESULT 3
US-10-769-514-16
; Sequence 16, Application US/10769514
; Publication No. US20040258695A1
; GENERAL INFORMATION:
; APPLICANT: Schryvers, Anthony
; TITLE OF INVENTION: Transferrin Binding Peptides and Uses Thereof
; FILE REFERENCE: 028722-001
; CURRENT APPLICATION NUMBER: US/10/769,514
; CURRENT FILING DATE: 2004-01-30
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 15
; TYPE: PRT
; ORGANISM: M. catarrhalis
US-10-769-514-16

Query Match      100.0%; Score 74; DB 5; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.2e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MGYGMALSKINLHN 14
Db      1 MGYGMALSKINLHN 14
|||||

RESULT 4
US-10-425-115-367739
; Sequence 367739, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 367739
; LENGTH: 64
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_98550C.1.pep
US-10-425-115-367739

Query Match      59.5%; Score 44; DB 4; Length 64;
Best Local Similarity 72.7%; Pred. No. 3.6;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GYGMALSKINL 12
Db      17 GYGYISKINL 27
|||||

RESULT 5
US-10-424-599-250435
; Sequence 250435, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 250435
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_68170C.1.pep
US-10-424-599-250435
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Query Match      58.1%; Score 43; DB 4; Length 71;
Best Local Similarity 50.0%; Pred. No. 6.1;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 MGYGMALSKINLHN 14
Db 58 LOYGLTYDKENLHD 71

RESULT 6
US-10-424-233-19
; Sequence 19, Application US/10424233
; Publication No. US20030220263A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: NOVEL HUMAN LEUCINE-RICH REPEAT-CONTAINING PROTEINS SPECIFICALLY
; FILE REFERENCE: D0233 NP
; CURRENT APPLICATION NUMBER: US/10/424,233
; CURRENT FILING DATE: 2003-04-25
; PRIOR APPLICATION NUMBER: U.S. 60/375,335
; PRIOR FILING DATE: 2002-04-25
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 19
; LENGTH: 635
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-424-233-19

Query Match      56.8%; Score 42; DB 4; Length 635;
Best Local Similarity 63.6%; Pred. No. 98;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALSKINLHN 14
Db 432 GVSLSKLSLHN 442

RESULT 7
US-09-374-046A-132
; Sequence 132, Application US/09374046A
; Publication No. US20030096951A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: Lavallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steininger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fechtel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: GI 6075-83A
; CURRENT APPLICATION NUMBER: US/09/374,046A
; CURRENT FILING DATE: 1999-08-13
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 132
; LENGTH: 695
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-374-046A-132

Query Match      56.8%; Score 42; DB 3; Length 695;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALSKINLHN 14
Db 492 GVSLSKLSLHN 502

RESULT 8
US-10-616-263-132
; Sequence 132, Application US/10616263
; Publication No. US20040038276A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: Lavallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steininger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fechtel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766.000103.5
; CURRENT APPLICATION NUMBER: US/10/616,263
; CURRENT FILING DATE: 2003-07-08
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 132
; LENGTH: 695
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-616-263-132

Query Match      56.8%; Score 42; DB 4; Length 695;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALSKINLHN 14
Db 492 GVSLSKLSLHN 502

RESULT 9
US-09-909-320-91
; Sequence 91, Application US/09909320
; Patent No. US20020132240A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
```

Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALSKINLHN 14
Db 492 GVSLSKLSLHN 502

RESULT 8

US-10-616-263-132
; Sequence 132, Application US/10616263
; Publication No. US20040038276A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: Lavallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steininger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fechtel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766.000103.5
; CURRENT APPLICATION NUMBER: US/10/616,263
; CURRENT FILING DATE: 2003-07-08
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 132
; LENGTH: 695
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-616-263-132

Query Match 56.8%; Score 42; DB 4; Length 695;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALSKINLHN 14
Db 492 GVSLSKLSLHN 502

RESULT 9

US-09-909-320-91
; Sequence 91, Application US/09909320
; Patent No. US20020132240A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann

```
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,320
; PRIOR FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-320-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e-02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GWALSKINLHN 14
Db 493 GVSLSKLSLHN 503

RESULT 10
US-09-909-088B-91
; Sequence 91, Application US/09909088B
; Patent No. US20020146709A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
```

```
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,088B
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-088B-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GWALSKINLHN 14
Db 493 GVSLSKLSLHN 503

RESULT 11
US-09-905-291A-91
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; Sequence 91, Application US/09905291A
; Patent No. US20020160374A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,291A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-291A-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMAISKINLHN 14
Db 493 GVSLSKLSLHN 503

RESULT 12
US-09-902-853-91
; Sequence 91, Application US/09902853
; Publication No. US20020192659A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,853
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US/09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
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; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-902-853-91

Query Match          56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      4 GMALSKINLHN 14
       |:|:|:|:|:|
Db      493 GVSLSKLSLHN 503

RESULT 13
; Sequence 91, Application US/09907824
; Publication No. US20020197671A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavitt, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,824
; PRIOR FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
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; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-907-824-91

Query Match          56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      4 GMALSKINLHN 14
       |:|:|:|:|:|
Db      493 GVSLSKLSLHN 503

RESULT 14
; Sequence 91, Application US/09907841
; Publication No. US20020198366A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavitt, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,841
; PRIOR FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
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; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-841-91

Query Match      56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      4 GMALSKINLHN 14
      |:|:|:|:|
DB      493 GVSLSKLSLHN 503

RESULT 15
US-09-904-011-91
; Sequence 91, Application US/09904011
; Publication No. US2003000350A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,011
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
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; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-011-91

Query Match      56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      4 GMALSKINLHN 14
      |:|:|:|:|
DB      493 GVSLSKLSLHN 503

RESULT 16
US-09-903-640-91
; Sequence 91, Application US/09903640
; Publication No. US20030017463A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
```

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; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/903,640
; PRIOR FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-903-640-91

Query Match      56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      4  GMAISKINLHN 14
      |::|||::|||
Db      493  GVSLSKLSLHN 503

RESULT 17
US-09-908-093-91
; Sequence 91, Application US/09908093
; Publication No. US20030017498A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/908,093
; PRIOR FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222

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; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-908-093-91

Query Match      56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      4  GMAISKINLHN 14
      |::|||::|||
Db      493  GVSLSKLSLHN 503

RESULT 18
US-09-908-742-91
; Sequence 91, Application US/09906742
; Publication No. US2003002034A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

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APPLICANT: WOOD, WILLIAM, I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

```

, FILE REFERENCE: 104666-14
, CURRENT APPLICATION NUMBER: US 09/906,838
, CURRENT FILING DATE: 2001-07-16
, PRIOR APPLICATION NUMBER: 09/665,350
, PRIOR FILING DATE: 2000-09-18
, PRIOR APPLICATION NUMBER: PCT/US00/04414
, PRIOR FILING DATE: 2000-02-22
, PRIOR APPLICATION NUMBER: US 60/143,048
, PRIOR FILING DATE: 1999-07-07
, PRIOR APPLICATION NUMBER: US 60/145,698
, PRIOR FILING DATE: 1999-07-26
, PRIOR APPLICATION NUMBER: US 60/146,222
, PRIOR FILING DATE: 1999-07-28
, PRIOR APPLICATION NUMBER: PCT/US99/20594
, PRIOR FILING DATE: 1999-09-08
, PRIOR APPLICATION NUMBER: PCT/US99/20944
, PRIOR FILING DATE: 1999-09-13
, PRIOR APPLICATION NUMBER: PCT/US99/21090
, PRIOR FILING DATE: 1999-09-15
, PRIOR APPLICATION NUMBER: PCT/US99/21547
, PRIOR FILING DATE: 1999-09-15
, PRIOR APPLICATION NUMBER: PCT/US99/23089
, PRIOR FILING DATE: 1999-10-05
, PRIOR APPLICATION NUMBER: PCT/US99/28214
, PRIOR FILING DATE: 1999-11-29
, PRIOR APPLICATION NUMBER: PCT/US99/28313
, PRIOR FILING DATE: 1999-11-30
, PRIOR APPLICATION NUMBER: PCT/US99/28564
, PRIOR FILING DATE: 1999-12-02
, PRIOR APPLICATION NUMBER: PCT/US99/28565
, PRIOR FILING DATE: 1999-12-02

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Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7: Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALSKINLHN 14
|::|||::|||
Dp 493 GVSLSKLSLHN 503

RESULT 19
US-906-838-91
; Sequence 91, Application US/09906838
; Publication No. US20030027143A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels

Qy 4 GMALSKINLHN 14
|::|||::||
db 493 GVSLSKLSLHN 503

RESULT 20
US-09-907-613-91

; Sequence 91, Application US/09907613
; Publication No. US20030027145A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,613
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1998-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-907-613-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.8%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMAISKINLHN 14
|:|:|:|:|:
DB 493 GVSLSKLSLHN 503

RESULT 21
US-09-907-942-91
; Sequence 91, Application US/09907942
; Publication No. US20030027146A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,942
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-907-613-91

; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-942-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14
|:|:|:|:|:|
Db 493 GVSLSKLSLHN 503

RESULT 22
US-09-904-859-91
; Sequence 91, Application US/09904859
; Publication No. US20030036060A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Pao, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,859
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-859-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14
|:|:|:|:|:|
Db 493 GVSLSKLSLHN 503

RESULT 23
US-09-909-204-91
; Sequence 91, Application US/09909204
; Publication No. US20030036061A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Pao, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,204
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22

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; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-204-91
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Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALEKINLHN 14
Db 493 GVSLSKLSLHN 503
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```
RESULT 24
US-09-904-820-91
; Sequence 91, Application US/09904820
; Publication No. US20030036094A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
```

```
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,820
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-820-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALEKINLHN 14
Db 493 GVSLSKLSLHN 503

RESULT 25
US-09-904-786-91
; Sequence 91, Application US/09904786
; Publication No. US20030039969A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
```



```
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,786
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-786-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GVALSKINLHN 14
Db 493 GVSLSKSLHN 503

RESULT 26
US-09-906-646-91
; Sequence 91, Application US/09906646
; Publication No. US2003003997A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,646
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-906-646-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GVALSKINLHN 14
Db 493 GVSLSKSLHN 503

RESULT 27
US-09-906-700-91
; Sequence 91, Application US/09906700
; Publication No. US2003003997A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
```


Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMAISKINLN 14
|:||||:|
Db 493 GVSLSKLSLN 503

RESULT 29

US-09-902-903-91

; Sequence 91, Application US/09902903
; Publication No. US2003004839A1

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999

; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-903-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMAISKINLN 14
|:||||:|

Db 493 GVSLSKLSLN 503

RESULT 30

US-09-903-749A-91

; Sequence 91, Application US/09903749A

; Publication No. US20030045693A1

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214

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; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 2000-01-05
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-749A-91

Query Match      56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      4 GWALSKINLHN 14
Db      493 GVSLSKSLHN 503

RESULT 31
US-09-904-119-91
; Sequence 91, Application US/09904119
; Publication No. US20030049621A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Tumae, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,119
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
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; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-119-91

Query Match      56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      4 GWALSKINLHN 14
Db      493 GVSLSKSLHN 503

RESULT 32
US-09-904-956-91
; Sequence 91, Application US/09904956
; Publication No. US20030049622A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumae, Daniel
```

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; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,956
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-904-956-91

Query Match          56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      4  GVALSKINLHN 14
Db      493  GVSLSKLSLHN 503

RESULT 33
US-09-902-736-91
; Sequence 91, Application US/09902736
; Publication No. US20030049676A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,736
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-902-736-91

Query Match          56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      4  GVALSKINLHN 14
Db      493  GVSLSKLSLHN 503

RESULT 34
US-09-907-794-91
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```
; Sequence 91, Application US/09907794
; Publication No. US20030049677A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794
; CURRENT FILING DATE: 2001-07-17
; PRIOR FILING DATE: 1999-09-13
; PRIOR FILING DATE: 1999-09-15
; PRIOR FILING DATE: 1999-09-15
; PRIOR FILING DATE: 1999-10-05
; PRIOR FILING DATE: 1999-11-29
; PRIOR FILING DATE: 1999-11-30
; PRIOR FILING DATE: 1999-12-02
; PRIOR FILING DATE: 1999-12-02
; PRIOR FILING DATE: 1999-12-16
; PRIOR FILING DATE: 1999-12-20
; PRIOR FILING DATE: 1999-12-20
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT

; ORGANISM: Homo Sapien
; US-09-907-794-91
;
; Query Match 56.8%; Score 42; DB 3; Length 696;
; Best Local Similarity 63.6%; Pred. No. 1.1e+02;
; Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
;
; QY 4 GMAUSKINLHN 14
; DB 493 GVSLSKJSLHN 503
;
; RESULT 35
; US-09-903-943-91
; Sequence 91, Application US/09903943
; Publication No. US2003005439A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/903,943
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-09-18
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
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;
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-903-943-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GVALSKINLHN 14
|:||||:|
Db 493 GVSLSKLSLHN 503

RESULT 36
US-09-904-462-91
; Sequence 91, Application US/09904462
; Publication No. US20030054351A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,462
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08

;
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-462-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GVALSKINLHN 14
|:||||:|
Db 493 GVSLSKLSLHN 503

RESULT 37
US-09-907-925-91
; Sequence 91, Application US/09907925
; Publication No. US20030054352A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/907,925
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
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; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
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; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-907-925-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

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Db 493 GVSLSKLSLHN 503

RESULT 38
US-09-902-692-91
; Sequence 91, Application US/09902692
; Publication No. US20030054400A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tunas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,692
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
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; PRIOR FILING DATE: 1999-07-28
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; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
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; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
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; PRIOR APPLICATION NUMBER: PCT/US99/28565
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; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
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; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-692-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALEKINLHN 14
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Db 493 GVSLSKLSLHN 503

RESULT 39
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; Sequence 91, Application US/09903520
; Publication No. US20030054401A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi


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; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-056-91

Query Match      56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
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Qy      4 GMALSKINLHN 14
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Search completed: May 13, 2006, 08:29:08
Job time : 166 secs
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GenCore version 5.1.8
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OM protein - protein search, using sw model

Run on: May 13, 2006, 08:26:32 ; Search time 28 Seconds
(without alignments)
23.474 Million cell updates/sec

Title: US-10-769-514-17

Perfect score: 74

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Gapop 10.0 , Gapext 0.5

Searched: 250354 seqs, 46948837 residues

Total number of hits satisfying chosen parameters: 250354

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Published Applications AA New.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	42	56.8	696	9	US-10-131-826A-354
2	42	56.8	696	9	US-10-511-538-231
3	42	56.8	696	9	US-10-973-115B-354
4	42	56.8	696	9	US-10-137-873A-354
5	42	56.8	696	9	US-10-152-370-354
6	42	56.8	696	11	US-11-290-153-354
7	37	50.0	310	11	US-11-079-463-9199
8	36.5	49.3	350	11	US-11-108-528-54
9	36.5	49.3	351	11	US-11-108-528-52
10	36	48.6	499	11	US-11-225-903-17
11	36	48.6	532	11	US-11-045-004-2431
12	35	47.3	175	11	US-11-172-740-1344
13	35	47.3	226	11	US-11-188-298-1316
14	35	47.3	291	11	US-11-188-298-15176
15	35	47.3	332	11	US-11-096-568A-20956
16	35	47.3	341	11	US-11-188-298-11417
17	35	47.3	407	9	US-10-698-618-1
18	35	47.3	502	11	US-11-096-568A-20955
19	35	47.3	525	11	US-11-096-568A-20954
20	35	47.3	665	11	US-11-188-298-7401
21	35	47.3	723	11	US-11-188-298-16346

35	47.3	724	11	US-11-188-298-490	Sequence 490, App
35	47.3	1404	9	US-10-995-561-526	Sequence 526, App
35	47.3	1581	11	US-11-090-439-24	Sequence 24, Appl
35	47.3	1581	11	US-11-090-439-26	Sequence 26, Appl
35	47.3	1588	9	US-10-995-561-527	Sequence 527, App
34	45.9	174	9	US-10-485-517-301	Sequence 301, App
34	45.9	292	11	US-11-129-143-96	Sequence 96, Appl
34	45.9	344	11	US-11-096-568A-29040	Sequence 29040, A
34	45.9	344	11	US-11-096-568A-29039	Sequence 29039, A
34	45.9	344	11	US-11-096-568A-29038	Sequence 29038, A
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34	45.9	467	11	US-11-079-463-7672	Sequence 8886, Ap
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36	45.9	544	11	US-11-188-298-3229	Sequence 3229, Ap
37	45.9	662	9	US-10-915-002-308	Sequence 308, App
38	45.9	724	11	US-11-072-512-2224	Sequence 2224, Ap
39	45.9	845	11	US-11-147-047-46	Sequence 46, Appl
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41	33.5	533	11	US-11-188-298-20107	Sequence 20107, A
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43	44.6	174	11	US-11-096-568A-739	Sequence 739, App
44	44.6	198	11	US-11-188-298-2235	Sequence 2235, Ap
45	44.6	232	11	US-11-096-568A-26655	Sequence 26655, A
46	44.6	246	11	US-11-096-568A-15419	Sequence 15419, A
47	44.6	283	9	US-10-784-004-386	Sequence 386, App
48	44.6	283	9	US-10-784-004-707	Sequence 707, App
49	44.6	283	9	US-10-784-004-935	Sequence 935, App
50	44.6	283	9	US-10-784-004-1081	Sequence 1081, Ap
51	44.6	289	11	US-11-096-568A-26654	Sequence 26654, A
52	44.6	294	11	US-11-188-298-21579	Sequence 21579, A
53	44.6	326	11	US-11-188-298-2124	Sequence 2124, Ap
54	44.6	332	9	US-10-454-437-28	Sequence 28, Appl
55	44.6	338	9	US-10-520-820-6	Sequence 6, Appl
56	44.6	356	11	US-11-096-568A-26653	Sequence 26653, A
57	44.6	368	11	US-11-079-463-9439	Sequence 9439, Ap
58	44.6	368	11	US-11-188-298-2281	Sequence 2281, A
59	44.6	374	11	US-11-188-298-10826	Sequence 10826, A
60	44.6	376	11	US-11-098-686-11320	Sequence 11320, A
61	44.6	379	11	US-11-132-864-2	Sequence 2, Appl
62	44.6	379	11	US-11-132-864-6	Sequence 6, Appl
63	44.6	379	11	US-11-096-568A-15418	Sequence 15418, A
64	44.6	391	11	US-11-072-512-3271	Sequence 3271, Ap
65	44.6	413	11	US-11-096-568A-15417	Sequence 15417, A
66	44.6	414	11	US-11-096-568A-28912	Sequence 28912, A
67	44.6	425	11	US-11-138-886-17	Sequence 17, Appl
68	44.6	474	11	US-11-079-463-9967	Sequence 9967, Ap
69	44.6	479	11	US-11-096-568A-28911	Sequence 28911, A
70	44.6	481	11	US-11-096-568A-28910	Sequence 28910, A
71	44.6	488	11	US-11-079-463-6937	Sequence 6937, Ap
72	44.6	515	11	US-11-124-367A-480	Sequence 480, App
73	44.6	554	11	US-11-098-686-11102	Sequence 11102, A
74	44.6	559	11	US-11-079-463-8073	Sequence 8073, Ap
75	44.6	570	11	US-11-079-463-8972	Sequence 8972, Ap
76	44.6	575	11	US-11-188-298-5709	Sequence 5709, Ap
77	44.6	575	11	US-11-188-298-14037	Sequence 14037, A
78	44.6	583	11	US-11-087-039-9797	Sequence 9797, Ap
79	44.6	610	9	US-10-793-626-482	Sequence 482, App
80	44.6	614	11	US-11-079-463-10331	Sequence 10331, A
81	44.6	625	11	US-11-188-298-19611	Sequence 19611, A
82	44.6	642	8	US-10-505-928-259	Sequence 259, App
83	44.6	642	11	US-11-072-175-172	Sequence 172, App
84	44.6	665	11	US-11-045-004-909	Sequence 909, App
85	44.6	731	11	US-11-188-298-9427	Sequence 9427, Ap
86	44.6	731	11	US-11-188-298-22532	Sequence 22532, A
87	44.6	732	11	US-11-188-298-668	Sequence 668, App
88	44.6	744	11	US-11-087-099-4099	Sequence 4099, Ap
89	44.6	744	11	US-11-188-298-13263	Sequence 13263, A
90	44.6	744	11	US-11-188-298-14812	Sequence 14812, A
91	44.6	773	11	US-11-052-554A-341	Sequence 341, App
92	44.6	845	11	US-11-188-298-14852	Sequence 14852, A
93	44.6	855	11	US-11-087-099-12274	Sequence 12274, A

95 33 44.6 918 11 US-11-024-959-492 Sequence 492, App
96 33 44.6 925 11 US-11-079-463-6249 Sequence 6249, App
97 33 44.6 1445 11 US-11-124-367A-478 Sequence 478, App
98 33 44.6 1464 9 US-10-912-971-4 Sequence 4, Appli
99 33 44.6 1464 11 US-11-076-074-1 Sequence 1, Appli
100 33 44.6 1464 11 US-11-124-367A-262 Sequence 262, App

ALIGNMENTS

RESULT 1
US-10-131-826A-354
; Sequence 354, Application US/10131826A
; Publication No. US20050245730A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tamas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C128
; CURRENT APPLICATION NUMBER: US/10/131,826A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/045911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining prior application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 354
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-131-826A-354

Query Match 56.8%; Score 42; DB 9; Length 696;
Best Local Similarity 63.6%; Pred. NO. 10;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

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|:|:|:|:|:|:|
Db 493 GVSLSKLSLHN 503

RESULT 2
US-10-511-538-231
; Sequence 231, Application US/10511538
; Publication No. US20060026700A1
; GENERAL INFORMATION:
; APPLICANT: Origene Technologies, Inc
; TITLE OF INVENTION: TISSUE SPECIFIC GENES AND GENE CLUSTERS
; FILE REFERENCE: 16U 200 PCT
; CURRENT APPLICATION NUMBER: US/10/511,538
; CURRENT FILING DATE: 2004-10-18
; PRIOR APPLICATION NUMBER: US 60/372,669
; PRIOR FILING DATE: 2002-04-16
; PRIOR APPLICATION NUMBER: US 60/411,882
; PRIOR FILING DATE: 2002-09-20
; PRIOR APPLICATION NUMBER: US 60/424,336
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: US 60/374,823
; PRIOR FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: US 60/376,558
; PRIOR FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: US 60/381,366
; PRIOR FILING DATE: 2002-05-20
; PRIOR APPLICATION NUMBER: US 60/403,648
; PRIOR FILING DATE: 2002-08-16
; NUMBER OF SEQ ID NOS: 344
; SOFTWARE: Patent in version 3.1
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-511-538-231

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Best Local Similarity 63.6%; Pred. NO. 10;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

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Db 493 GVSLSKLSLHN 503

RESULT 3
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; Publication No. US20060040351A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tamas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING
; TITLE OF INVENTION: SAME
; FILE REFERENCE: 39870-3330R1C300C1
; CURRENT APPLICATION NUMBER: US/10/973,115B
; CURRENT FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 10/145,747
; PRIOR FILING DATE: 2002-05-14
; PRIOR APPLICATION NUMBER: US 10/028,072

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; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: US 09/581,742
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: PCT/US00/05746
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: US 60/135,736
; PRIOR FILING DATE: 1999-05-25
; PRIOR APPLICATION NUMBER: US 60/123,090
; PRIOR FILING DATE: 1998-03-05
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 354
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-973-115B-354
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Query Match 56.8%; Score 42; DB 9; Length 696;
Best Local Similarity 63.6%; Pred. No. 10;
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Db 493 GVSLSKLSLHN 503
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; Sequence 354, Application US/10137873A
; Publication No. US20060084138A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C149
; CURRENT APPLICATION NUMBER: US/10/137,873A
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
```

```
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 354
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-137-873A-354
```

```
Query Match 56.8%; Score 42; DB 9; Length 696;
Best Local Similarity 63.6%; Pred. No. 10;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 4 GMALSKINLHN 14
|::|::|::|
Db 493 GVSLSKLSLHN 503
```

```
RESULT 5
US-10-152-370-354
; Sequence 354, Application US/10152370
; Publication No. US20060084139A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C407
; CURRENT APPLICATION NUMBER: US/10/152,370
; CURRENT FILING DATE: 2002-05-21
; Prior Application removed - See file Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 354
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-152-370-354
```

```
Query Match 56.8%; Score 42; DB 9; Length 696;
Best Local Similarity 63.6%; Pred. No. 10;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 4 GMALSKINLHN 14
|::|::|::|
Db 493 GVSLSKLSLHN 503
```

```
RESULT 6
US-11-290-153-354
; Sequence 354, Application US/11290153
; Publication No. US20060073568A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
```

```

; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C321
; CURRENT APPLICATION NUMBER: US/11/290,153
; CURRENT FILING DATE: 2005-11-30
; PRIOR APPLICATION NUMBER: US/10/146,728
; PRIOR FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; Remaining prior application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 354
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
;
US-11-290-153-354

Query Match 56.8%; Score 42; DB 11; Length 696;
Best Local Similarity 63.6%; Pred. No. 10;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALSKINLHN 14
Db 493 GVSLSKLSLHN 503

RESULT 7
US-11-079-463-9199
; Sequence 9199, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Berton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 9199
; LENGTH: 310
; TYPE: PRT
; ORGANISM: B.fragilis

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US-11-079-463-9199

Query Match 50.0%; Score 37; DB 11; Length 310;
Best Local Similarity 54.5%; Pred. No. 35;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 3 YGMALSKINLH 13
Db 65 YGLALEVVLDLH 75

RESULT 8
US-11-108-528-54
; Sequence 54, Application US/11108528
; Publication No. US20050261189A1
; GENERAL INFORMATION:
; APPLICANT: Larsen, Glenn
; APPLICANT: Marvin, Martha
; APPLICANT: Li, Dean Y.
; APPLICANT: Wang, Elizabeth
; APPLICANT: Chen, C. M. Amy
; APPLICANT: Shamah, Steven M.
; TITLE OF INVENTION: METHODS OF PROMOTING CARDIAC CELL
; FILE REFERENCE: HYDR-P01-041
; CURRENT APPLICATION NUMBER: US/11/108,528
; CURRENT FILING DATE: 2005-04-18
; PRIOR APPLICATION NUMBER: US 60/563,137
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 60/598,368
; PRIOR FILING DATE: 2004-08-02
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 350
; TYPE: PRT
; ORGANISM: Mouse
;
US-11-108-528-54

Query Match 49.3%; Score 36.5; DB 11; Length 350;
Best Local Similarity 31.0%; Pred. No. 49;
Matches 9; Conservative 4; Mismatches 1; Indels 15; Gaps 1;

Qy 1 MCYGMALSK-----INLHN 14
Db 135 VGFGAISKQFVDALETGQDARAAMNLHN 163

RESULT 9
US-11-108-528-52
; Sequence 52, Application US/11108528
; Publication No. US20050261189A1
; GENERAL INFORMATION:
; APPLICANT: Larsen, Glenn
; APPLICANT: Marvin, Martha
; APPLICANT: Li, Dean Y.
; APPLICANT: Wang, Elizabeth
; APPLICANT: Chen, C. M. Amy
; APPLICANT: Shamah, Steven M.
; TITLE OF INVENTION: METHODS OF PROMOTING CARDIAC CELL
; FILE REFERENCE: HYDR-P01-041
; CURRENT APPLICATION NUMBER: US/11/108,528
; CURRENT FILING DATE: 2005-04-18
; PRIOR APPLICATION NUMBER: US 60/563,137
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 60/598,368
; PRIOR FILING DATE: 2004-08-02
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 351
; TYPE: PRT

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```
; ORGANISM: Homo sapiens
US-11-108-528-52

Query Match      49.3%; Score 36.5; DB 11; Length 351;
Best Local Similarity 31.0%; Pred. No. 49;
Matches 9; Conservative 4; Mismatches 1; Indels 15; Gaps 1;

QY 1 MGYGNALSK-----INTLN 14
   :||:|:|:|
Db 136 VGFGEAISQFVDALETGODARANNLN 164

RESULT 10
US-11-225-903-17
; Sequence 17, Application US/11225903
; Publication No. US20060059582A1
; GENERAL INFORMATION:
; APPLICANT: Jankowski, Boris
; APPLICANT: Feldmann, Kenneth A.
; APPLICANT: Bobzin, Steven Craig
; TITLE OF INVENTION: Modulation of Amino Acid and Sugar Content in Plants
; FILE REFERENCE: 11696-137001/WO1
; CURRENT APPLICATION NUMBER: US/11/225,903
; CURRENT FILING DATE: 2005-09-13
; PRIOR APPLICATION NUMBER: 60/610,356
; PRIOR FILING DATE: 2004-9-14
; NUMBER OF SEQ ID NOS: 28
; SEQ ID NO 17
; LENGTH: 499
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(499)
; OTHER INFORMATION: Public GI no. 11994438
US-11-225-903-17

Query Match      48.6%; Score 36; DB 11; Length 499;
Best Local Similarity 60.0%; Pred. No. 92;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 3 YGMALSKINL 12
   |||::|:|
Db 468 YGMALADINN 477

RESULT 11
US-11-045-004-2431
; Sequence 2431, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESER, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: FSIHL, HAFIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSSURGET, OLIVIER
; APPLICANT: CHETOUANI, FARID
; APPLICANT: NEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREPT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
```

```
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARNIA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMTUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2431
; LENGTH: 532
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-2431

Query Match      48.6%; Score 36; DB 11; Length 532;
Best Local Similarity 54.5%; Pred. No. 99;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 3 YGMALSKINLH 13
   |||::|:|
Db 71 YGQALERLN 81

RESULT 12
US-11-172-740-1344
; Sequence 1344, Application US/11172740
; Publication No. US20060057724A1
; GENERAL INFORMATION:
; APPLICANT: MASCIA, Peter
; APPLICANT: ALEXANDROV, Nickolai
; APPLICANT: BROVER, Vyacheslav
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR
; TITLE OF INVENTION: PLANT CHARACTERISTICS AND PHENOTYPES
; FILE REFERENCE: 2750-1602PUS2
; CURRENT APPLICATION NUMBER: US/11/172,740
; CURRENT FILING DATE: 2005-06-30
; PRIOR APPLICATION NUMBER: 60/583,621
; PRIOR FILING DATE: 2004-06-30
; PRIOR APPLICATION NUMBER: 60/584,829
; PRIOR FILING DATE: 2004-06-30
; PRIOR APPLICATION NUMBER: 60/584,800
; PRIOR FILING DATE: 2004-06-30
; NUMBER OF SEQ ID NOS: 2523
; SEQ ID NO 1344
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc_feature
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```
; LOCATION: (1)..(175)
; OTHER INFORMATION: Public GI no. 2346976
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for increasing chlorophyll and photosynthetic cap
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for making ornamental plants with modified leaves
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for making plants with altered leaf shape eg curl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for modifying fruit shape, composition and seed y
;
US-11-172-740-1344
Query Match 47.3%; Score 35; DB 11; Length 175;
Best Local Similarity 70.0%; Pred. No. 43;
Matches 7; Conservative 1; Mismatches 1; Indels 2; Gaps 0;

Qy 5 MALSKLNDHN 14
| | | | |
Db 25 MLISKLNDHN 34

RESULT 13
US-11-188-298-1316
; Sequence 1316, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1316
; LENGTH: 226
; TYPE: PRT
; ORGANISM: Davidia involucrata
US-11-188-298-1316

Query Match 47.3%; Score 35; DB 11; Length 226;
Best Local Similarity 60.0%; Pred. No. 57;
Matches 6; Conservative 3; Mismatches 1; Indels 1; Gaps 0;

Qy 1 MGYGMALSKI 10
| | | | |
Db 19 VGYGLELSRI 28

RESULT 14
US-11-188-298-5176
; Sequence 5176, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 5176
; LENGTH: 291
; TYPE: PRT
```

```
; ORGANISM: Glycine max
US-11-188-298-5176

Query Match 47.3%; Score 35; DB 11; Length 291;
Best Local Similarity 60.0%; Pred. No. 76;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MGYGMALSKI 10
| | | | |
Db 192 IGYGLELSRI 201

RESULT 15
US-11-096-568A-20956
; Sequence 20956, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20956
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; NAME/KEY: misc_feature
; LOCATION: (1)..(332)
; OTHER INFORMATION: Ceres Seq. ID no. 12391420
US-11-096-568A-20956

Query Match 47.3%; Score 35; DB 11; Length 332;
Best Local Similarity 30.8%; Pred. No. 89;
Matches 4; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy 2 GYGMAISKINLHN 14
| | | | |
Db 159 GHGISIGSLGVHN 171

RESULT 16
US-11-188-298-11417
; Sequence 11417, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 11417
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Glycine max
US-11-188-298-11417

Query Match 47.3%; Score 35; DB 11; Length 341;
Best Local Similarity 60.0%; Pred. No. 91;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MGYGMALSKI 10
| | | | |
Db 192 IGYGLELSRI 201

RESULT 17
US-10-698-618-1
```



```
; ORGANISM: Glycine max
US-11-188-298-16346

Query Match      47.3%; Score 35; DB 11; Length 723;
Best Local Similarity 60.0%; Pred. No. 2.2e+02;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy      1 MGYGMALSKI 10
Db      517 IGVGLELSRI 526

RESULT 22
US-11-188-298-490
; Sequence 490, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 490
; LENGTH: 724
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-11-188-298-490

Query Match      47.3%; Score 35; DB 11; Length 724;
Best Local Similarity 60.0%; Pred. No. 2.2e+02;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy      1 MGYGMALSKI 10
Db      515 IGVGLELSRI 524

RESULT 23
US-10-995-561-526
; Sequence 526, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 526
; LENGTH: 1404
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-526

Query Match      47.3%; Score 35; DB 9; Length 1404;
Best Local Similarity 35.7%; Pred. No. 4.6e+02;
Matches 5; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy      1 MGYGMALSKINLHN 14
Db      49 IGWGSQSKVHIHH 62

RESULT 24
US-11-090-439-24
; Sequence 24, Application US/11090439
; Publication No. US20050266442A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Squillace, Rachel
; TITLE OF INVENTION: Immortalized Human Tuberos Sclerosis Null
; FILE REFERENCE: 24318-502
; CURRENT APPLICATION NUMBER: US/11/090,439
; CURRENT FILING DATE: 2005-03-25
; PRIOR APPLICATION NUMBER: 60/556,344
; PRIOR FILING DATE: 2004-03-25
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 24
; LENGTH: 1581
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-090-439-24

Query Match      47.3%; Score 35; DB 11; Length 1581;
Best Local Similarity 35.7%; Pred. No. 5.3e+02;
Matches 5; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy      1 MGYGMALSKINLHN 14
Db      49 IGWGSQSKVHIHH 62

RESULT 25
US-11-090-439-26
; Sequence 26, Application US/11090439
; Publication No. US20050266442A1
; GENERAL INFORMATION:
; APPLICANT: Squillace, Rachel
; APPLICANT: Weiner, Michael P.
; TITLE OF INVENTION: Immortalized Human Tuberos Sclerosis Null
; TITLE OF INVENTION: Angiomyolipoma Cell and Method of Use Thereof
; FILE REFERENCE: 24318-502
; CURRENT APPLICATION NUMBER: US/11/090,439
; CURRENT FILING DATE: 2005-03-25
; PRIOR APPLICATION NUMBER: 60/556,344
; PRIOR FILING DATE: 2004-03-25
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
; LENGTH: 1581
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-090-439-26

Query Match      47.3%; Score 35; DB 11; Length 1581;
Best Local Similarity 35.7%; Pred. No. 5.3e+02;
Matches 5; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy      1 MGYGMALSKINLHN 14
Db      49 IGWGSQSKVHIHH 62

RESULT 26
US-10-995-561-527
; Sequence 527, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 527
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; LENGTH: 1588
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-527

Query Match 47.3%; Score 35; DB 9; Length 1588;
Best Local Similarity 35.7%; Pred. No. 5.3e+02;
Matches 5; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLH 14
Db 49 IGWQSQSKVHIH 62

RESULT 27
US-10-485-517-301
; Sequence 301, Application US/10485517
; Publication No. US20050256299A1
; GENERAL INFORMATION:
; APPLICANT: University of Sheffield
; APPLICANT: Biosynexus Incorporated
; APPLICANT: Foster, Simon
; APPLICANT: Mond, James
; TITLE OF INVENTION: Antigenic Polypeptides
; FILE REFERENCE: P100629W0
; CURRENT APPLICATION NUMBER: US/10/485,517
; PRIOR FILING DATE: 2004-02-02
; PRIOR APPLICATION NUMBER: GB 0118825.9
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: GB 0200349.9
; PRIOR FILING DATE: 2002-01-09
; NUMBER OF SEQ ID NOS: 424
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 301
; LENGTH: 174
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-10-485-517-301

Query Match 45.9%; Score 34; DB 9; Length 174;
Best Local Similarity 36.4%; Pred. No. 65;
Matches 4; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 3 YGMALSKINLH 13
Db 81 YGLAIASLSVH 91

RESULT 28
US-11-129-143-96
; Sequence 96, Application US/11129143
; Publication No. US20050266518A1
; GENERAL INFORMATION:
; APPLICANT: BERRY, Alan
; APPLICANT: BRETZEL, Werner
; APPLICANT: HUMBLIN, Markus
; APPLICANT: LOPEZ-ULIBARRI, Rual
; APPLICANT: MAYER, Anne F.
; APPLICANT: YELISEEV, Alexei A.
; TITLE OF INVENTION: IMPROVED ISOPRENOID PRODUCTION
; FILE REFERENCE: C38435/121966
; CURRENT APPLICATION NUMBER: US/11/129,143
; CURRENT FILING DATE: 2005-05-13
; NUMBER OF SEQ ID NOS: 197
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 96
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Streptococcus pyrogenes
US-11-129-143-96

Query Match 45.9%; Score 34; DB 11; Length 292;
Best Local Similarity 66.7%; Pred. No. 1.2e+02;

Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 1 MGYGMALSKINL 12
Db 5 IGYGKAKSKIL 16

RESULT 29
US-11-096-568A-29040
; Sequence 29040, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 29040
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; NAME/KEY: misc feature
; LOCATION: (1)..(344)
; OTHER INFORMATION: Ceres Seq. ID no. 3599624
US-11-096-568A-29040

Query Match 45.9%; Score 34; DB 11; Length 344;
Best Local Similarity 38.5%; Pred. No. 1.4e+02;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 2 GYGMALSKINLH 14
Db 101 GYGIGSLTVNVHS 113

RESULT 30
US-11-096-568A-29039
; Sequence 29039, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 29039
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; NAME/KEY: misc feature
; LOCATION: (1)..(365)
; OTHER INFORMATION: Ceres Seq. ID no. 3599623
US-11-096-568A-29039

Query Match 45.9%; Score 34; DB 11; Length 365;
Best Local Similarity 38.5%; Pred. No. 1.5e+02;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 2 GYGMALSKINLH 14
Db 122 GYGIGSLTVNVHS 134

RESULT 31
US-11-096-568A-29038
; Sequence 29038, Application US/11096568A
; Publication No. US20060048240A1

; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 29038
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; NAME/KEY: misc feature
; LOCATION: (1)-(440)
; OTHER INFORMATION: Ceres Seq. ID no. 3599622
US-11-096-568A-29038

Query Match 45.9%; Score 34; DB 11; Length 440;
Best Local Similarity 38.5%; Pred. No. 1.9e+02;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;
Qy 2 GYGMAISKINLHN 14
Db 197 GYGIGSLTVNVHS 209

RESULT 32
US-11-087-099-8602
; Sequence 8602, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 8602
; LENGTH: 445
; TYPE: PRT
; ORGANISM: Butyrivibrio fibrisolvens
US-11-087-099-8602

Query Match 45.9%; Score 34; DB 11; Length 445;
Best Local Similarity 60.0%; Pred. No. 1.9e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
Qy 2 GYGMAISKIN 11
Db 305 GYGLGYSKID 314

RESULT 33
US-11-188-298-7996
; Sequence 7996, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 7996
; LENGTH: 445
; TYPE: PRT
; ORGANISM: Butyrivibrio fibrisolvens
US-11-188-298-7996

Query Match 45.9%; Score 34; DB 11; Length 445;

Best Local Similarity 60.0%; Pred. No. 1.9e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
Qy 2 GYGMAISKIN 11
Db 305 GYGLGYSKID 314

RESULT 34
US-11-079-463-7672
; Sequence 7672, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 7672
; LENGTH: 467
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-7672

Query Match 45.9%; Score 34; DB 11; Length 467;
Best Local Similarity 66.7%; Pred. No. 2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MGYGNMALS 9
Db 335 IGYGIGLSK 343

RESULT 35
US-11-079-463-8886
; Sequence 8886, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8886
; LENGTH: 521
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-8886

Query Match 45.9%; Score 34; DB 11; Length 521;
Best Local Similarity 70.0%; Pred. No. 2.3e+02;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
Qy 2 GYGMAISKIN 11
Db 260 GYKVLRSKIN 269

RESULT 36
US-11-188-298-3229
; Sequence 3229, Application US/11188298

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; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 3229
; LENGTH: 544
; TYPE: PRT
; ORGANISM: Schizosaccharomyces pombe
US-11-188-298-3229

Query Match 45.9%; Score 34; DB 11; Length 544;
Best Local Similarity 54.5%; Pred. No. 2.4e+02;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14
DB 148 GMILTVOVLHN 158

RESULT 37
US-10-915-002-308
; Sequence 308, Application US/10915002
; Publication No. US20060078950A1
; GENERAL INFORMATION:
; APPLICANT: Progulske-Fox, Ann
; APPLICANT: Hillman, Jeffrey D.
; APPLICANT: Handfield, Martin
; TITLE OF INVENTION: IDENTIFICATION OF PORPHYROMONAS GINGIVALIS VIRULENCE POLYNUCLEOTIDE
; TITLE OF INVENTION: USE IN DIAGNOSIS ANTIGENS FOR USE IN THE DIAGNOSIS, TREATMENT, A
; TITLE OF INVENTION: PERIODONTAL DISEASES
; FILE REFERENCE: 02-042
; CURRENT APPLICATION NUMBER: US/10/915,002
; CURRENT FILING DATE: 2004-08-10
; NUMBER OF SEQ ID NOS: 354
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 308
; LENGTH: 662
; TYPE: PRT
; ORGANISM: Porphyromonas gingivalis
US-10-915-002-308

Query Match 45.9%; Score 34; DB 9; Length 662;
Best Local Similarity 75.0%; Pred. No. 3e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 GYGMALSK 9
DB 327 GYGMALAQ 334

RESULT 38
US-11-072-512-2224
; Sequence 2224, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO

; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2224
; LENGTH: 724
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2224

Query Match 45.9%; Score 34; DB 11; Length 724;
Best Local Similarity 54.5%; Pred. No. 3.3e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14
DB 493 GTALTRLNLRN 503

RESULT 39
US-11-147-047-46
; Sequence 46, Application US/11147047
; Publication No. US20050260668A1
; GENERAL INFORMATION:
; APPLICANT: Agarwal, Pankaj
; APPLICANT: Murdock, Paul R.
; APPLICANT: Rizvi, Safia K.
; APPLICANT: Smith, Randall F.
; APPLICANT: Xiang, Zhaoying
; TITLE OF INVENTION: NOVEL COMPOUNDS
; FILE REFERENCE: GP50016
; CURRENT APPLICATION NUMBER: US/11/147,047
; CURRENT FILING DATE: 2005-06-07
; PRIOR APPLICATION NUMBER: US/10/221,097
; PRIOR FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: PCT/US01/07143
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: 60/187,107
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/236,874
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/188,916
; PRIOR FILING DATE: 2000-03-13
; PRIOR APPLICATION NUMBER: 60/237,846
; PRIOR FILING DATE: 2000-10-03
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 46
; LENGTH: 845
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-147-047-46

Query Match 45.9%; Score 34; DB 11; Length 845;
Best Local Similarity 54.5%; Pred. No. 4e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14
DB 493 GTALTRLNLRN 503
```

```

RESULT 40
US-11-264-096-483
; Sequence 483, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546D1
; CURRENT APPLICATION NUMBER: US/11/264,096
; CURRENT FILING DATE: 2005-11-02
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229,358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256,931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199,384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 483
; LENGTH: 845
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (477)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-11-264-096-483

Query Match 45.9%; Score 34; DB 11; Length 845;
Best Local Similarity 54.5%; Pred. NO. 4e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 4 GMALSKINLHN 14
Db 493 GTALTFLNLRN 503

Search completed: May 13, 2006, 08:29:40
Job time : 29 secs

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GenCore version 5.1.8
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OM protein - protein search, using sw model

Run on: May 13, 2006, 08:10:22 ; Search time 39 Seconds
(without alignments)
34.539 Million cell updates/sec

Title: US-10-769-514-17

Perfect score: 74

Sequence: 1 MGYGNALSKINLHN 14

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : PIR 80:*

1: Pirl:*

2: Pirl2:*

3: Pirl3:*

4: Pirl4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	62.2	188	2 AB0503	conserved hypotet
2	46	62.2	188	2 B85481	yaaH protein [sami
3	46	62.2	188	2 B90630	yaaH protein [sami
4	46	62.2	188	2 E56688	protein yaaH - Esc
5	46	62.2	203	2 AH0057	probable membrane
6	44	59.5	197	2 F82282	conserved hypotet
7	43	58.1	119	2 E72714	probable ribosomal
8	41	55.4	906	2 B96901	uncharacterized co
9	40	54.1	429	2 JC4986	site-specific DNA-
10	40	54.1	432	2 A82533	glutamyl-tRNA redu
11	40	54.1	607	2 B84153	two-component sens
12	40	54.1	1122	2 T28130	hypothetical prote
13	39.5	53.4	2338	2 I73957	kinase-related pro
14	39	52.7	89	2 A43664	usg protein - Caul
15	39	52.7	204	2 E69126	yaaH protein homol
16	39	52.7	1032	2 S74487	hypothetical prote
17	38	51.4	282	2 H97226	protein containing
18	38	51.4	316	2 S77783	hypothetical prote
19	38	51.4	444	2 T05614	hypothetical prote
20	38	51.4	583	2 T32266	hypothetical prote
21	38	51.4	627	2 T00484	beta-N-acetylgluco
22	37.5	50.7	603	2 JC7900	homeotic protein H
23	37	50.0	217	1 WJHU2C	homeotic protein H
24	37	50.0	217	1 WJMSX2	N-acetylmutamoyl-L
25	37	50.0	250	2 A69951	probable d-amino a
26	37	50.0	348	2 T40989	sporulation protei
27	37	50.0	362	2 S27530	probable proteinas
28	37	50.0	362	2 A84963	conserved hypotet
29	37	50.0	378	2 H69505	

30	37	50.0	394	2 AI2206	hypothetical prote
31	37	50.0	551	2 S66740	probable transcrip
32	37	50.0	691	1 VCNVH3	capsid-associated
33	37	50.0	692	2 T41845	VP80 orf104 - Bomb
34	37	50.0	693	1 JH0265	DNA recombinase [E
35	37	50.0	693	2 G91194	DNA helicase RecG
36	37	50.0	704	2 H86041	hypothetical prote
37	37	50.0	809	2 AI2747	conserved hypotet
38	37	50.0	873	2 H97528	hypothetical prote
39	36	48.6	79	2 F72592	hypothetical prote
40	36	48.6	168	2 H83643	polypeptide deform
41	36	48.6	168	2 E87389	RNA polymerase sig
42	36	48.6	170	2 H82746	polypeptide deform
43	36	48.6	200	2 F83780	hypothetical prote
44	36	48.6	302	2 D85911	hypothetical prote
45	36	48.6	305	2 S64612	hypothetical prote
46	36	48.6	357	2 C70805	hypothetical prote
47	36	48.6	379	2 H90183	hypothetical prote
48	36	48.6	382	2 AB0945	alcohol dehydrogen
49	36	48.6	382	2 AI0040	probable methanol
50	36	48.6	409	2 S26033	NADH2 dehydrogenas
51	36	48.6	409	2 S26021	NADH2 dehydrogenas
52	36	48.6	422	2 C91067	hypothetical prote
53	36	48.6	532	2 AB1369	conserved hypotet
54	36	48.6	532	2 AC1738	conserved hypotet
55	36	48.6	573	2 B70047	two-component sens
56	36	48.6	699	2 T18984	hypothetical prote
57	36	48.6	1068	2 T48756	mitochondrial nico
58	35.5	48.0	257	1 S22363	gufa protein homol
59	35.5	48.0	257	2 AF0890	probable membrane
60	35.5	48.0	257	2 H91119	gufa protein homol
61	35.5	48.0	257	2 G85964	gufa protein homol
62	35.5	48.0	464	2 S3194	royal jelly protei
63	35.5	48.0	3036	2 T18995	hypothetical prote
64	35	47.3	132	2 T32373	hypothetical prote
65	35	47.3	207	2 S20683	phosphinomethylmal
66	35	47.3	311	2 AE3169	hypothetical prote
67	35	47.3	322	2 T27333	hypothetical prote
68	35	47.3	325	1 B40358	NADH2 dehydrogenas
69	35	47.3	325	1 DNWTU1	NADH2 dehydrogenas
70	35	47.3	325	1 S49576	NADH2 dehydrogenas
71	35	47.3	329	2 F64356	translation initia
72	35	47.3	331	1 DNOBU1	NADH2 dehydrogenas
73	35	47.3	336	2 E72359	rod shape-determin
74	35	47.3	356	2 G97072	uncharacterized con
75	35	47.3	366	2 AE0105	sugar transport At
76	35	47.3	394	2 F90598	membrane nuclease
77	35	47.3	407	2 S58062	amelin 1 - rat
78	35	47.3	413	2 AE0089	probable flagellar
79	35	47.3	498	2 T23432	hypothetical prote
80	35	47.3	499	2 E98969	histidine kinase (
81	35	47.3	514	2 S17958	cytochrome oxidase
82	35	47.3	514	2 F90770	probable third cyc
83	35	47.3	514	2 B85633	probable L-lactate
84	35	47.3	567	2 C75340	hypothetical prote
85	35	47.3	569	2 H59092	hypothetical prote
86	35	47.3	580	2 C82082	penicillin-binding
87	35	47.3	598	2 T29878	hypothetical prote
88	35	47.3	631	2 G70188	transcription init
89	35	47.3	634	2 F82079	probable 2',3'-cyc
90	35	47.3	675	2 F84937	DNA ligase (NAD) (
91	35	47.3	690	1 OYRTA1	guanylate cyclase
92	35	47.3	691	1 OYB077	guanylate cyclase
93	35	47.3	717	2 S23098	guanylate cyclase
94	35	47.3	724	2 H86427	unknown protein [i
95	35	47.3	725	2 S57127	probable membrane
96	35	47.3	732	2 S18325	guanylate cyclase,
97	35	47.3	804	2 AG1038	conserved hypotet
98	35	47.3	845	1 B71255	ribonucleoside-dip
99	35	47.3	871	2 T49216	hypothetical prote
100	35	47.3	893	2 S61000	probable membrane

C;Accession: AH0057
R;Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, M.T.G.; Prentice, M.B.;
deno-Tarraga, A.M.; Chillingworth, T.; Cronin, A.; Davies, R.M.; Davis, P.; Dougan, G.;
il, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barrrell,
Nature 413, 523-527, 2001
A;Title: Genome sequence of *Yersinia pestis*, the causative agent of plague.
A;Reference number: AB0001; MUID:21470413; PMID:11586360
A;Accession: AH0057
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-203 <KUR>
A;Cross-references: UNIPROT:Q8ZIM6; UNIPARC:UPI00000DC73D; GB:AL590842; PIDN:CAC89323.1;
C;Genetics:
C;Superfamily: Saccharomyces cerevisiae probable membrane protein FUN34

Query Match 62.2%; Score 46; DB 2; Length 203;
Best Local Similarity 57.1%; Pred. No. 0.55;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 1 MGYGMALSKINLHN 14
|||:|:|
Db 15 MGFGMTVLLNHN 28

RESULT 6
F82282
conserved hypothetical protein VC0770 [imported] - *Vibrio cholerae* (strain N16961 serogroup
C;Species: *Vibrio cholerae*
C;Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 09-Jul-2004
C;Accession: F82282
R;Heidelberg, J.F.; Eisen, J.A.; Nelson, W.C.; Clayton, R.A.; Gwinn, M.L.; Dodson, R.J.;
chardson, D.; Ermolaeva, M.D.; Vamathevan, J.; Bass, S.; Qin, H.; Dragoi, I.; Sellers, B.
l, R.R.; Mekalanos, J.J.; Venter, J.C.; Fraser, C.M.
Nature 406, 477-483, 2000
A;Title: DNA sequence of both chromosomes of the cholera pathogen *Vibrio cholerae*.
A;Reference number: A82035; MUID:20406833; PMID:10952301
A;Accession: F82282
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-197 <HEI>
A;Cross-references: UNIPROT:Q9KTW0; UNIPARC:UPI00000C2DBA; GB:AE004162; GB:AE003852; NID:
A;Experimental source: serogroup O1; strain N16961; biotype El Tor
C;Genetics:
A;Gene: VC0770
A;Map position: 1
C;Superfamily: Saccharomyces cerevisiae probable membrane protein FUN34

Query Match 59.5%; Score 44; DB 2; Length 197;
Best Local Similarity 50.0%; Pred. No. 1.3;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 MGYGMALSKINLHN 14
|||:|:|
Db 14 MGFGMTVLLNHN 27

RESULT 7
E72714
probable ribosomal protein S24 APE132 - *Aeropyrum pernix* (strain K1)
C;Species: *Aeropyrum pernix*
C;Date: 20-Aug-1999 #sequence_revision 20-Aug-1999 #text_change 24-Sep-1999
R;Kawarabayashi, Y.; Hino, Y.; Horikawa, H.; Yamazaki, S.; Haikawa, Y.; Jin-no, K.; Takah
awa, H.; Takamiya, M.; Masuda, S.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; F
DNA Res. 6, 83-101, 1999
A;Title: Complete genome sequence of an aerobic hyper-thermophilic Crenarchaeon, *Aeropyrum*
A;Reference number: A72450; MUID:99310339; PMID:10382966
A;Accession: E72714
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-119 <KAW>
A;Cross-references: UNIPARC:UPI000005DPE12; DBJ:AP000060; NID:q5104188; PIDN:BA080117.1;

```

A82533
C:Species: Xylella fastidiosa
C/Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 09-Jul-2004
C/Accession: A82533
R:anonymous, The Xylella fastidiosa Consortium of the Organization for Nucleotide Sequencing
Nature 406, 151-157, 2000
A/Title: The genome sequence of the plant pathogen Xylella fastidiosa.
A/Reference number: A82515; PMID:20365717; PMID:10910347
A/Note: for a complete list of authors see reference number A59328 below
A/Accession: A82533
A/Status: preliminary
A/Molecule type: DNA
A/Residues: 1-432 <SIM>
A/Cross-references: UNIPROT:Q9PA72; UNIPARC:UPI000012C440; GB:AE004071; GB:AE003849; NID
A/Experimental source: strain 945C
R:Simpson, A.J.G.; Reinach, F.C.; Arruda, P.; Abreu, F.A.; Acencio, M.; Alvarenga, R.;
Briones, M.R.S.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.R.A.; Carraro, D.M.; Carrer, F.
as-Neto, E.; Docena, C.; El-Dorri, H.; Facincani, A.P.; Ferreira, A.J.S.
submitted to GenBank, June 2000
A/Authors: Ferreira, V.C.A.; Ferro, J.A.; Fraga, J.S.; Franca, S.C.; Franco, M.C.; Frohm
J.D.; Junqueira, M.L.; Kemper, E.L.; Kitajima, J.P.; Krieger, J.B.; Kuramae, E.E.; Laig
chado, M.A.; Madeira, A.M.B.N.; Madeira, H.M.F.; Marino, C.L.; Marques, M.V.; Martins, E
A/Authors: Martins, E.M.F.; Matsukuma, A.Y.; Menck, C.F.M.; Miracca, E.C.; Miyaki, C.Y.
, F.G.; Nunes, L.R.; Oliveira, M.A.; de Oliveira, M.C.; de Oliveira, R.C.; Palmieri, D.A
Rodrigues, V.; Rosa, A.J. de M.; de Rosa Jr., V.E.; de Sa, R.G.; Santelli, R.V.; Sawasak
A/Authors: da Silva, A.C.R.; da Silva, F.R.; da Silva, A.M.; Silva Jr., W.A.; da Silveir
M.; Tshuko, M.H.; Vallada, H.; Van Sluys, M.A.; Verjovski-Almeida, S.; Vettore, A.L.; Z
A/Reference number: A59328
A/Contents: annotation
C:Genetics:
A:Gene: XF2648
C/Superfamily: glutamyl-tRNA reductase
Query Match 54.1%; Score 40; DB 2; Length 432;
Best Local Similarity 50.0%; Pred. No. 17;
Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
Qy 2 GYGMAISKINLH 13
Db 220 GYALPTELNH 231
RESULT 11
B84153
two-component sensor histidine kinase BH4026 [imported] - Bacillus halodurans (strain C-
C/Species: Bacillus halodurans
C/Date: 01-Dec-2000 #sequence_revision 01-Dec-2000 #text_change 09-Jul-2004
C/Accession: B84153
R:Takami, H.; Nakasone, K.; Takaki, Y.; Maeno, G.; Sasaki, R.; Masui, N.; Fujii, F.; Hira
Nucleic Acids Res. 28, 4317-4331, 2000
A/Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and
A/Reference number: A83650; PMID:20512582; PMID:11058132
A/Accession: B84153
A/Status: preliminary
A/Molecule type: DNA
A/Residues: 1-607 <STO>
A/Cross-references: UNIPROT:Q9K5R2; UNIPARC:UPI000000C439F; GB:AP001520; GB:BA000004; NID
A/Experimental source: strain C-125
C:Genetics:
A:Gene: BH4026
Query Match 54.1%; Score 40; DB 2; Length 607;
Best Local Similarity 50.0%; Pred. No. 25;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
Qy 1 MGYGMAISKINLH 14
Db 221 MGYGDFSRKVNHS 234
RESULT 12
T28130
hypothetical protein ZK970.6 - Caenorhabditis elegans
C/Species: Caenorhabditis elegans
C/Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C/Accession: T28130
R:Berke, M.
submitted to the EMBL Data Library, April 1995
A/Reference number: Z20473
A/Accession: T28130
A/Status: preliminary; translated from GB/EMBL/DBDJ
A/Molecule type: DNA
A/Residues: 1-1122 <WIL>
A/Cross-references: UNIPROT:Q23682; UNIPARC:UPI000007CF2C; EMBL:Z49073; PIDN:CAA88890.1.,
A/Experimental source: clone ZK970
C:Genetics:
A:Gene: CESP-ZK970.6
A/Map position: 2
A/Residues: 28/3; 72/2; 153/2; 281/1; 312/3; 354/3; 401/1; 442/3; 660/3; 761/1; 819/2; 95
C/Superfamily: membrane-bound guanylate cyclase; guanylate cyclase catalytic domain homo
Query Match 54.1%; Score 40; DB 2; Length 1122;
Best Local Similarity 77.8%; Pred. No. 48;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
Qy 3 YGMALSKIN 11
Db 370 YGMAVSKLN 378
RESULT 13
I73957
kinase-related protein c-ros-1 precursor - rat
N:Contains: protein-tyrosine kinase (EC 2.7.1.112) ros-1
C/Species: Rattus norvegicus (Norway rat)
C/Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 09-Jul-2004
C/Accession: I73957; I56752; I73956
R:Matsumi, H.; Shibuya, M.
J. Virol. 64, 2117-2125, 1990
A/Title: Tissue-specific expression of rat c-ros-1 gene and partial structural similarit
A/Reference number: I56752; MUID:90219211; PMID:2139140
A/Accession: I73957
A/Status: preliminary; translated from GB/EMBL/DBDJ
A/Molecule type: mRNA
A/Residues: 1-2338 <RES>
A/Cross-references: UNIPROT:Q63132; UNIPARC:UPI00000E793D; GB:M35106; NID:g203599; PIDN
A/Accession: I56752
A/Status: preliminary; translated from GB/EMBL/DBDJ
A/Molecule type: mRNA
A/Residues: 1-430,452-2338 <RE2>
A/Cross-references: UNIPARC:UPI00000E591B; GB:M35104; NID:g203595; PIDN:AAA40966.1; PID
A/Accession: I73956
A/Status: preliminary; translated from GB/EMBL/DBDJ
A/Molecule type: mRNA
A/Residues: 1-430,452-1872, 'AC', 1875 <RE3>
A/Cross-references: UNIPARC:UPI00000E78EA; GB:M35105; NID:g203597; PIDN:AAA40967.1; PID
C/Superfamily: kinase-related protein ros; LDL receptor YWTD-containing repeat homology,
C/Keywords: alternative splicing; ATP; autophosphorylation; glycoprotein; kinase-related
ific protein kinase
F:753-793/Domain: LDL receptor YWTD-containing repeat homology <YW3>
F:1935-2214/Domain: protein kinase homology <KIN>
F:1943-1951/Region: protein kinase ATP-binding motif
Query Match 53.4%; Score 39.5; DB 2; Length 2338;
Best Local Similarity 58.8%; Pred. No. 1.3e+02;
Matches 10; Conservative 1; Mismatches 3; Indels 3; Gaps 1;
Qy 1 MGY---GMALSKINLH 14
Db 1190 MGYFAQGDALFLNLH 1206
RESULT 14
A43664
usg protein - Caulobacter crescentus

```

C:Species: Caulobacter crescentus
C:Date: 03-Mar-1993 #sequence_revision 03-Mar-1993 #text_change 09-Jul-2004
C:Accession: A43664; H87688
R:Ross, C.M.; Winkler, M.E.
J. Bacteriol. 170, 757-768, 1988
A:Title: Structure of the Caulobacter crescentus trpFBA operon.
A:Reference number: A43664; MUID:88115177; PMID:2828322
A:Accession: A43664
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-89 <ROS>
A:Cross-references: UNIPROT:P12288; UNIPARC:UPI0000137E4F; GB:M19129; NID:gl144284; PIDN:
R.Nierman, W.C.; Feldblyum, T.V.; Paulsen, I.T.; Nelson, K.E.; Eisen, J.; Heidelberg, J.
B.; Laub, M.T.; DeBoy, R.T.; Dodson, R.J.; Durkin, A.S.; Gwinn, M.L.; Haft, D.H.; Kolon
n, J.; Emolaeva, M.; White, O.; Salzberg, S.L.; Shapiro, L.; Venter, J.C.; Fraser, C.M.
Proc. Natl. Acad. Sci. U.S.A. 98, 4136-4141, 2001
A:Title: Complete Genome Sequence of Caulobacter crescentus.
A:Reference number: A87249; MUID:21173698; PMID:11259647
A:Accession: H87688
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-89 <STO>
A:Cross-references: UNIPARC:UPI0000137B4F; GB:AE005673; NID:gl13425282; PIDN:AAK25508.1;
C:Genetics:
A:Gene: CC3546

Query Match 52.7%; Score 39; DB 2; Length 89;
Best Local Similarity 46.2%; Pred. No. 4.6;
Matches 6; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLH 13
DB 11 MGYGLTTAIIHYH 23
|||:|:|:|:|:|
|||:|:|:|:|:|

RESULT 15
E69126
yaaH protein homolog MTH215 - Methanobacterium thermoautotrophicum (strain Delta H)
C:Species: Methanobacterium thermoautotrophicum
C:Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004
C:Accession: E69126
R:Smith, D.R.; Doucette-Stamm, L.A.; Deloughery, C.; Lee, H.; Dubois, J.; Aldredge, T.;
Qiu, D.; Spadafora, R.; Vicaire, R.; Wang, Y.; Wierzbowski, J.; Gibson, R.; Jiواني, N.
ki, S.; Church, G.M.; Daniels, C.J.; Mao, J.; Rice, P.; Noelling, J.; Reeve, J.N.
J. Bacteriol. 179, 7135-7155, 1997
A:Title: Complete genome sequence of Methanobacterium thermoautotrophicum Delta H: func
A:Reference number: A69000; MUID:98037514; PMID:93711463
A:Accession: E69126
A:Status: preliminary; nucleic acid sequence not shown; translation not shown
A:Molecule type: DNA
A:Residues: 1-204 <MTH>
A:Cross-references: UNIPROT:O26317; UNIPARC:UPI000013948D; GB:AE000808; GB:AE000666; NID
A:Experimental source: strain Delta H
C:Genetics:
A:Gene: MTH215
A:Start codon: TTG
C:Superfamily: Saccharomyces cerevisiae probable membrane protein FUN34

Query Match 52.7%; Score 39; DB 2; Length 204;
Best Local Similarity 42.9%; Pred. No. 11;
Matches 6; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
DB 28 LGFGITILLNLHN 41
|||:|:|:|:|:|
|||:|:|:|:|:|

RESULT 16
S74487
hypothetical protein sll1060 - Synechocystis sp. (strain PCC 6803)
C:Species: Synechocystis sp.
A:Variety: PCC 6803
C:Date: 25-Apr-1997 #sequence_revision 25-Apr-1997 #text_change 09-Jul-2004

C:Accession: S74487
R:Kaneko, T.; Sato, S.; Kotani, H.; Tanaka, A.; Asamizu, E.; Nakamura, Y.; Miyajima, N.;
O., K.; Okumura, S.; Shimpo, S.; Takeuchi, C.; Wada, T.; Watanabe, A.; Yamada, M.; Yasuda
DNA Res. 3, 103-136, 1996
A:Title: Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis
s.
A:Reference number: S74322; MUID:97061201; PMID:8905231
A:Accession: S74487
A:Status: nucleic acid sequence not shown; translation not shown
A:Molecule type: DNA
A:Residues: 1-1032 <KAN>
A:Cross-references: UNIPROT:P72637; UNIPARC:UPI0000139F8B; EMBL:D90899; GB:AE001339; NID:
A:Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1996
C:Genetics:
A:Start codon: GTG

Query Match 52.7%; Score 39; DB 2; Length 1032;
Best Local Similarity 63.6%; Pred. No. 68;
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 GYGMALSKINL 12
DB 569 GYGFTLSPVNL 579
|||:|:|:|:|:|
|||:|:|:|:|:|

RESULT 17
H97226
protein containing uncharacterized domain from NimC family [imported] - Clostridium ace.
C:Species: Clostridium acetobutylicum
C:Date: 14-Sep-2001 #sequence_revision 14-Sep-2001 #text_change 09-Jul-2004
C:Accession: H97226
R:Noelling, J.; Breton, G.; Omelchenko, M.V.; Markarova, K.S.; Zeng, Q.; Gibson, R.; Lee,
J. Bacteriol. 183, 4823-4838, 2001
A:Title: Genome Sequence and Comparative Analysis of the Solvent-Producing Bacterium Cl.
A:Reference number: A96900; MUID:21359325; PMID:21359325
A:Accession: H97226
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-282 <KUR>
A:Cross-references: UNIPROT:Q97FS1; UNIPARC:UPI000000CA5C9; GB:AE001437; PIDN:AAK80603.1;
A:Experimental source: Clostridium acetobutylicum ATCC824
C:Genetics:
A:Gene: CAC2656

Query Match 51.4%; Score 38; DB 2; Length 282;
Best Local Similarity 50.0%; Pred. No. 25;
Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 3 YGMALSKINLHN 14
DB 231 YAIAMKKLLNN 242
|||:|:|:|:|:|
|||:|:|:|:|:|

RESULT 18
S77783
hypothetical protein MC100 - Mycoplasma capricolum (fragment)
C:Species: Mycoplasma capricolum
C:Date: 09-Oct-1997 #sequence_revision 24-Oct-1997 #text_change 09-Jul-2004
C:Accession: S77783
R:Bork, P.; Ouzounis, C.; Casari, G.; Schneider, R.; Sander, C.; Dolan, M.; Gilbert, W.
Mol. Microbiol. 16, 955-967, 1995
A:Title: Exploring the Mycoplasma capricolum genome: a minimal cell reveals its physiolo.
A:Reference number: S77739; MUID:96059641; PMID:7476192
A:Accession: S77783
A:Status: nucleic acid sequence not shown; translation not shown
A:Molecule type: DNA
A:Residues: 1-316 <BOR>
A:Cross-references: UNIPROT:Q48999; UNIPARC:UPI000000B6594; EMBL:Z33074; NID:9516148; PI
A:Experimental source: ATCC 27343
A:Note: the nucleotide sequence was submitted to the EMBL Data Library, July 1994
C:Genetics:
A:Genetic code: SGCG

```
Query Match      51.4%; Score 38; DB 2; Length 316;
Best Local Similarity 42.9%; Pred. No. 29;
Matches 6; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy      1 MGYGMALSKINLHN 14
      :|||:|::|
Db      284 IGYGVWLNRLYYHN 297

RESULT 19
T05614
hypothetical protein F9D16.290 - Arabidopsis thaliana
C:Species: Arabidopsis thaliana (mouse-ear cress)
C>Date: 23-Apr-1999 #sequence_revision 23-Apr-1999 #text_change 09-Jul-2004
C:Accession: T05614
R:Lin, X.; Kaul, M.; Wedler, H.; Wedler, E.; Wambutt, R.; Hoheisel, J.; Mewes, H.W.; Mayer, K.F.
submitted to the Protein Sequence Database, February 1999
A:Reference number: Z15419
A:Accession: T05614
A:Molecule type: DNA
A:Residues: 1-444 <BEV>
A:Cross-references: UNIPROT:Q9SUP5; UNIPARC:UPI00000489D3; EMBL:AL035394
A:Experimental source: cultivar Columbia; BAC clone F9D16
C:Genetics:
A:Map position: 4
A:Introns: 110/3; 151/1; 209/2; 233/1
A:Note: F9D16.290
C:Superfamily: polygalacturonase

Query Match      51.4%; Score 38; DB 2; Length 444;
Best Local Similarity 70.0%; Pred. No. 41;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      4 GMALSKINLH 13
      |::|::|
Db      393 GICLSEINLH 402

RESULT 20
T32266
hypothetical protein F23F1.6 - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C>Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
C:Accession: T32266
R:Wu, X.
submitted to the EMBL Data Library, September 1997
A:Description: The sequence of C. elegans cosmid F23F1.
A:Reference number: Z21142
A:Accession: T32266
A:Status: preliminary; translated from GB/EMBL/DDBJ
A:Molecule type: DNA
A:Residues: 1-583 <WUX>
A:Cross-references: UNIPROT:O17069; UNIPARC:UPI000007E396; EMBL:AF024493; PIDN:AAB70324
A:Experimental source: strain Bristol N2; clone F23F1
C:Genetics:
A:Gene: CESP.F23F1.6
A:Map position: 2
A:Introns: 88/2; 155/3; 199/3; 428/1; 509/3
C:Superfamily: ecotropic retrovirus receptor protein

Query Match      51.4%; Score 38; DB 2; Length 583;
Best Local Similarity 63.6%; Pred. No. 56;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      4 GMALSKINLHN 14
      |::|::|
Db      561 GQKLSKIDVHN 571

RESULT 21
T00484
hypothetical protein At2g35030 [imported] - Arabidopsis thaliana
N;Alternate names: hypothetical protein F19I3.26
C:Species: Arabidopsis thaliana (mouse-ear cress)
C>Date: 12-Feb-1999 #sequence_revision 12-Feb-1999 #text_change 09-Jul-2004
C:Accession: T00484; G84763
R:Rounsley, S.D.; Lin, X.; Ketchum, K.A.; Crosby, M.L.; Brandon, R.C.; Sykes, S.M.; Kaul
submitted to the EMBL Data Library, April 1998
A:Description: Arabidopsis thaliana chromosome II BAC F19I3 genomic sequence.
A:Reference number: Z14160
A:Accession: T00484
A:Status: translated from GB/EMBL/DDBJ
A:Molecule type: DNA
A:Residues: 1-627 <ROU>
A:Cross-references: UNIPROT:O64766; UNIPARC:UPI00000A16AD; EMBL:AC004238; NID:G3033373;
A:Experimental source: cultivar Columbia
R:Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Mofatt, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L.;
euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J.
Nature 402, 761-768, 1999
A:Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A:Reference number: A84420; MUID:20083487; PMID:10617197
A:Accession: G84763
A:Status: Preliminary
A:Molecule type: DNA
A:Residues: 1-627 <STO>
A:Cross-references: UNIPARC:UPI00000A16AD; GB:AE002093; NID:G3033399; PIDN:AAC12843.1; G
C:Genetics:
A:Gene: F19I3.26; At2g35030
A:Map position: 2

Query Match      51.4%; Score 38; DB 2; Length 627;
Best Local Similarity 58.3%; Pred. No. 61;
Matches 7; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy      3 YGMALSKINLHN 14
      |||||
Db      505 YGAILSACNVHN 516

RESULT 22
JC7900
beta-N-acetylglucosaminidase (EC 3.2.1.30) Naga - Emericella nidulans, Aspergillus nidul
C:Species: Emericella nidulans; Aspergillus nidulans
C>Date: 03-Feb-2003 #sequence_revision 03-Feb-2003 #text_change 09-Jul-2004
C:Accession: JC7900
R:Kim, S.; Matsuo, I.; Ajisaka, K.; Nakajima, H.; Kitamoto, K.
BioSci. Biotechnol. Biochem. 66, 2168-2175, 2002
A:Title: Cloning and characterization of the naga gene that encodes beta-N-acetylglucosa
A:Reference number: JC7900; MUID:22333931; PMID:12450128
A:Accession: JC7900
A:Molecule type: mRNA
A:Residues: 1-603 <KIM>
A:Cross-references: UNIPROT:O9HG13; UNIPARC:UPI0000069AFD; DBJ:AB039846
C:Comment: This enzyme is generally dimeric and has broad substrate specificity. It has
gradation of chitin cell wall by endochitinases.
C:Genetics:
A:Gene: naga
C:Keywords: glycosidase; hydrolase

Query Match      50.7%; Score 37.5; DB 2; Length 603;
Best Local Similarity 81.8%; Pred. No. 72;
Matches 9; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

Qy      4 GWALSKINLH 13
      |||||
Db      210 GWALSKINLH 220

RESULT 23
W0HU2C
homeotic protein Hox B7 - human
N;Alternate names: homeotic protein cl; homeotic protein Hox 2C; TATAA binding protein
C:Species: Homo sapiens (man)
C>Date: 30-Sep-1991 #sequence_revision 30-Sep-1991 #text_change 09-Jul-2004
```

C:Accession: A28030; S15535; A44934
R:Simone, A.; Mavilio, F.; Acampora, D.; Giampaolo, A.; Faiella, A.; Zappavigna, V.; D' Proc. Natl. Acad. Sci. U.S.A. 84, 4914-4918, 1987
A:Title: Two human homeobox genes, c1 and c8: structure analysis and expression in embryo
A:Reference number: A28030; MUID:87260899; PMID:2885844
A:Accession: A28030
A:Molecule type: mRNA
A:Residues: 1-217 <SIM>
A:Cross-references: UNIPROT:P09629; UNIPARC:UPI00001745A9; GB:M16937
A:Note: the authors translated the codon GGC for residue 53 as Ala
R:Boncinelli, E.; Acampora, D.; Pannese, M.; d'Esposito, M.; Somma, R.; Gaudino, G.; Stc Genome 31, 745-756, 1989
A:Title: Organization of human class I homeobox genes.
A:Reference number: S15036; MUID:90215256; PMID:2576652
A:Accession: S15535
A:Molecule type: DNA
A:Residues: 137-202 <BON>
A:Cross-references: UNIPARC:UPI00001745AA
R:Baier, L.J.; Hannibal, M.C.; Hanley, E.W.; Nabel, G.J. Blood 78, 1047-1055, 1991
A:Title: Lymphoid expression and TATAA binding of a human protein containing an Antennap
A:Reference number: A44934; MUID:91329816; PMID:1678287
A:Accession: A44934
A:Molecule type: mRNA
A:Residues: 98-217 <BAI>
A:Cross-references: UNIPARC:UPI00001745AB; GB:S49765; NID:G233572; PIDN:AAB19469.1; PID: A:Note: this sequence is inconsistent with the nucleotide translation
A:Note: sequence extracted from NCBI backbone (NCBI:49765, NCBIP:49769)
C:Genetics:
A:Gene: GDB:H0XB7
A:Cross-references: GDB:120660; OMIM:142962
A:Map position: 17q21.3-17q21.3
A:Insertions: 134/1
C:Superfamily: homeotic protein Hox A7; homeobox homology
C:Keywords: DNA binding; homeobox; nucleus; transcription regulation
F:138-194/Domain: homeobox homology <Hox>

Query Match 50.0%; Score 37; DB 1; Length 217;
Best Local Similarity 50.0%; Pred. No. 29;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 GYGMAISKINLH 13
|||:|:|
DB 77 GYGLEPSPFNMH 88

RESULT 24
WJMSX2
homeotic protein Hox B7 - mouse
N:Alternate names: homeotic protein Hox 2.3
C:Species: Mus musculus (house mouse)
C:Date: 30-Jun-1991 #sequence revision 30-Jun-1991 #text change 09-Jul-2004
A:Accession: A26846; B26846; B27176; A29585; S00988; I48411; S01887
R:Meijlink, F.; de laaf, R.; Verrilizer, P.; Destree, O.; Kroezen, V.; Hilkens, J.; Desch Nucleic Acids Res. 15, 6773-6786, 1987
A:Title: A mouse homeobox containing gene on chromosome 11: sequence and tissue-specific
A:Reference number: A26846; MUID:88015526; PMID:2889183
A:Accession: A26846
A:Molecule type: DNA
A:Residues: 1-217 <MEI>
A:Cross-references: UNIPROT:P09024; UNIPARC:UPI0000029981; GB:Y00436; NID:G51387; PIDN:Q
A:Accession: B26846
A:Molecule type: mRNA
A:Residues: 1-217 <ME2>
A:Cross-references: UNIPARC:UPI0000029981; EMBL:Y00436; NID:G51387; PIDN:CAA68494.1; PID
R:Hart, C.P.; Fainsod, A.; Ruddie, F.H. Genomics 1, 182-195, 1987
A:Title: Sequence analysis of the murine Hox-2.2, -2.3, and -2.4 homeo boxes: evolutiona
A:Reference number: A27176; MUID:88085193; PMID:2891608
A:Accession: B27176
A:Molecule type: DNA
A:Residues: 134-210, R' 212-217 <HAR>
A:Cross-references: UNIPARC:UPI00001745AC; EMBL:M18400

R:Lonai, P.; Arman, E.; Czosnek, H.; Ruddie, F.H.; Blatt, C. DNA 6, 409-418, 1987
A:Title: New murine homeoboxes: structure, chromosomal assignment, and differential exp
A:Reference number: A29585; MUID:88054465; PMID:2890503
A:Accession: A29585
A:Molecule type: DNA
A:Residues: 'LCV', 134-185, 'G', 187-205, 'H', 207-210, 'A', 212-217 <LOH>
A:Cross-references: UNIPARC:UPI00001745AD; EMBL:M18167
A:Note: the authors translated the codon CAG for residue 186 as Gly
R:Kongsuwan, K.; Webb, E.; Housiaux, P.; Adams, J.M. EMBO J. 7, 2131-2138, 1988
A:Title: Expression of multiple homeobox genes within diverse mammalian haemopoietic lin
A:Reference number: S00987; MUID:88329001; PMID:2901346
A:Accession: S00988
A:Molecule type: mRNA
A:Residues: 137-196 <KON>
A:Cross-references: UNIPARC:UPI000016CDEF; EMBL:X14570; NID:G51388; PIDN:CAA32708.1; PT
R:Verrilizer, P.; de Graaff, W.; Deschamps, J.; Meijlink, F. Nucleic Acids Res. 16, 2729, 1988
A:Title: Nucleotide sequence of the Hox2.3 gene region.
A:Reference number: I48411; MUID:88203221; PMID:2896332
A:Accession: I48411
A>Status: translation not shown; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-217 <RES>
A:Cross-references: UNIPARC:UPI0000029981; EMBL:X06762; NID:G51389; PIDN:CAA29934.1; PT
C:Genetics:
A:Gene: Hox-2.3
A:Map position: 11
C:Superfamily: homeotic protein Hox A7; homeobox homology
C:Keywords: DNA binding; homeobox; nucleus; transcription regulation
F:138-194/Domain: homeobox homology <Hox>

Query Match 50.0%; Score 37; DB 1; Length 217;
Best Local Similarity 50.0%; Pred. No. 29;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 GYGMAISKINLH 13
|||:|:|
DB 77 GYGLEPSPFNMH 88

RESULT 25
A69951
N-acetylmuramoyl-L-alanine amidase homolog yqeE - Bacillus subtilis
C:Species: Bacillus subtilis
C:Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004
C:Accession: A69951
R:Kunst, F.; Ogasawara, N.; Moser, I.; Albertini, A.M.; Alloni, G.; Azevedo, V.; Berte C.; Bron, S.; Brouillet, S.; Bruschi, C.V.; Caldwell, B.; Capuano, V.; Carter, N.M.; Ch A.; Ehrlich, S.D.; Emmerson, P.T.; Entian, K.D.; Errington, J.; Fabret, C.; Ferrari, E. Nature 390, 249-256, 1997
A:Authors: Foulger, D.; Fritz, C.; Fujita, M.; Fujita, Y.; Fuma, S.; Galizzi, A.; Galle iech, J.; Harwood, C.R.; Henaut, A.; Hilbert, H.; Holsappel, S.; Hosono, S.; Hullo, M.F. Kostter, P.; Koningstein, G.; Krogh, S.; Kumano, M.; Kurita, K.; Lapidus, A.; Lardinois A.; Authors: Lauber, J.; Lazarevic, V.; Lee, S.M.; Levine, A.; Liu, H.; Masuda, S.; Mauee Y, M.; Ogawa, K.; Ogiwara, A.; Oudega, B.; Park, S.H.; Parro, V.; Pohl, T.M.; Portetell Rieger, M.; Rivolta, C.; Rocha, E.; Roche, B.; Rose, M.; Sadate, J.; Sato, T.; Scanlon A:Authors: Schleich, S.; Schroeter, R.; Scoffone, F.; Sekiguchi, J.; Sekowska, A.; Sero akeuchi, M.; Tamakoshi, A.; Tanaka, T.; Terpstra, P.; Tognoni, A.; Tosato, V.; Uchiyama T.; Winters, P.; Wipat, A.; Yamamoto, H.; Yamane, K.; Yasumoto, K.; Yata, K.; Yoshida, A.; Authors: Yoshikawa, H.F.; Zumstein, E.; Yoshikawa, H.; Danchin, A. A:Title: The complete genome sequence of the Gram-positive bacterium Bacillus subtilis. A:Reference number: A69580; MUID:98044033; PMID:9384377
A:Accession: A69951
A>Status: preliminary; nucleic acid sequence not shown; translation not shown
A:Molecule type: DNA
A:Residues: 1-250 <KUN>
A:Cross-references: UNIPROT:P54450; UNIPARC:UPI000006076F; GB:Z99117; GB:AL009126; NID: A:Experimental source: strain 168
C:Genetics:
A:Gene: yqeE
C:Superfamily: Bacillus N-acetylmuramoyl-L-alanine amidase

Best Local Similarity 50.0%; Pred. No. 56;
Matches 6; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 MGYGMSKINL 12
:|:|:|:|:|:|
Db 286 LGFVAFKVS 297

RESULT 31
S66740
probable transcription factor YOL055c - yeast (Saccharomyces cerevisiae)
N/Alternate names: protein O1239
C/Species: Saccharomyces cerevisiae
C/Date: 12-Jul-1996 #sequence revision 12-Jul-1996 #text_change 09-Jul-2004
C/Accession: S66740; S66747; S59294; S61724
R/Ansgorge, W.; Benes, V.; Rechmann, S.; Schwarze, C.; Teodoru, C.; Voss, H.; Wiemann, S.
submitted to the Protein Sequence Database, July 1996
A/Reference number: S66723
A/Accession: S66740
A/Molecule type: DNA
A/Residues: 1-551 <ANS>
A/Cross-references: UNIPROT:Q08224; UNIPARC:UPI000006B390; EMBL:Z74797; NID:gl419864; PID:91419864
A/Experimental source: strain S288C
R/Feldmann, H.; Mannhaupt, G.; Vetter, I.
submitted to the Protein Sequence Database, July 1996
A/Reference number: S66743
A/Accession: S66747
A/Molecule type: DNA
A/Residues: 1-551 <PEL>
A/Cross-references: UNIPARC:UPI000006B390; EMBL:Z74797; NID:gl419864; PID:e251864; PID:91419864
A/Experimental source: strain S288C
R/Mannhaupt, G.; Vetter, I.; Schwarze, C.; Mitzel, S.; Feldmann, H.
submitted to the EMBL Data Library, August 1995
A/Description: Analysis of a 26kb region on the left arm of yeast chromosome XV.
A/Reference number: S59285
A/Accession: S59294
A/Molecule type: DNA
A/Residues: 1-543 <FEW>
A/Cross-references: UNIPARC:UPI000006ACE0; EMBL:X91067; NID:g984177; PID:g984187
R/Mannhaupt, G.; Vetter, I.; Schwarze, C.; Mitzel, S.; Feldmann, H.
Yeast 12, 67-76, 1996
A/Title: Analysis of a 26 kb region on the left arm of yeast chromosome XV.
A/Reference number: S61715; MUID:96381248; PMID:8789261
A/Accession: S61724
A/Status: nucleic acid sequence not shown; translation not shown
A/Molecule type: DNA
A/Residues: 1-543 <MAN>
A/Cross-references: UNIPARC:UPI000006ACE0; EMBL:X91067; NID:g984177; PIDN:CAA62531.1; PID:91419864
A/Note: the nucleotide sequence was submitted to the EMBL Data Library, August 1995
C/Genetics:
A/Gene: SGD:THI20
A/Cross-references: SGD:S0005416
A/Map position: 15L

Query Match 50.0%; Score 37; DB 2; Length 551;
Best Local Similarity 70.0%; Pred. No. 81;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MGYGMSK 10
|||||:|:|:
Db 470 MGYGALTRM 479

RESULT 32
VCNVH3
capsid-associated protein - Autographa californica nuclear polyhedrosis virus
C/Species: Autographa californica nuclear polyhedrosis virus, AcMNPV
C/Date: 30-Jun-1993 #sequence revision 30-Jun-1993 #text_change 09-Jul-2004
C/Accession: A43376; A72863; S27897
R/Lu, A.; Caretens, E.B.
Virology 190, 201-209, 1992
A/Title: Nucleotide sequence and transcriptional analysis of the p80 gene of Autographa
id-associated gene.

Best Local Similarity 50.0%; Pred. No. 56;
Matches 6; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 MGYGMSKINL 12
:|:|:|:|:|:|
Db 286 LGFVAFKVS 297

RESULT 31
S66740
probable transcription factor YOL055c - yeast (Saccharomyces cerevisiae)
N/Alternate names: protein O1239
C/Species: Saccharomyces cerevisiae
C/Date: 12-Jul-1996 #sequence revision 12-Jul-1996 #text_change 09-Jul-2004
C/Accession: S66740; S66747; S59294; S61724
R/Ansgorge, W.; Benes, V.; Rechmann, S.; Schwarze, C.; Teodoru, C.; Voss, H.; Wiemann, S.
submitted to the Protein Sequence Database, July 1996
A/Reference number: S66723
A/Accession: S66740
A/Molecule type: DNA
A/Residues: 1-551 <ANS>
A/Cross-references: UNIPROT:Q08224; UNIPARC:UPI000006B390; EMBL:Z74797; NID:gl419864; PID:91419864
A/Experimental source: strain S288C
R/Feldmann, H.; Mannhaupt, G.; Vetter, I.
submitted to the Protein Sequence Database, July 1996
A/Reference number: S66743
A/Accession: S66747
A/Molecule type: DNA
A/Residues: 1-551 <PEL>
A/Cross-references: UNIPARC:UPI000006B390; EMBL:Z74797; NID:gl419864; PID:e251864; PID:91419864
A/Experimental source: strain S288C
R/Mannhaupt, G.; Vetter, I.; Schwarze, C.; Mitzel, S.; Feldmann, H.
submitted to the EMBL Data Library, August 1995
A/Description: Analysis of a 26kb region on the left arm of yeast chromosome XV.
A/Reference number: S59285
A/Accession: S59294
A/Molecule type: DNA
A/Residues: 1-543 <FEW>
A/Cross-references: UNIPARC:UPI000006ACE0; EMBL:X91067; NID:g984177; PID:g984187
R/Mannhaupt, G.; Vetter, I.; Schwarze, C.; Mitzel, S.; Feldmann, H.
Yeast 12, 67-76, 1996
A/Title: Analysis of a 26 kb region on the left arm of yeast chromosome XV.
A/Reference number: S61715; MUID:96381248; PMID:8789261
A/Accession: S61724
A/Status: nucleic acid sequence not shown; translation not shown
A/Molecule type: DNA
A/Residues: 1-543 <MAN>
A/Cross-references: UNIPARC:UPI000006ACE0; EMBL:X91067; NID:g984177; PIDN:CAA62531.1; PID:91419864
A/Note: the nucleotide sequence was submitted to the EMBL Data Library, August 1995
C/Genetics:
A/Gene: SGD:THI20
A/Cross-references: SGD:S0005416
A/Map position: 15L

Query Match 50.0%; Score 37; DB 2; Length 551;
Best Local Similarity 70.0%; Pred. No. 81;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MGYGMSK 10
|||||:|:|:
Db 470 MGYGALTRM 479

RESULT 32
VCNVH3
capsid-associated protein - Autographa californica nuclear polyhedrosis virus
C/Species: Autographa californica nuclear polyhedrosis virus, AcMNPV
C/Date: 30-Jun-1993 #sequence revision 30-Jun-1993 #text_change 09-Jul-2004
C/Accession: A43376; A72863; S27897
R/Lu, A.; Caretens, E.B.
Virology 190, 201-209, 1992
A/Title: Nucleotide sequence and transcriptional analysis of the p80 gene of Autographa
id-associated gene.

A/Reference number: A43376; MUID:92410596; PMID:1529529
A/Accession: A43376
A/Molecule type: DNA
A/Residues: 1-691 <LUA>
A/Cross-references: UNIPROT:Q00733; UNIPARC:UPI00000138C95; GB:M94914; NID:G332467; PIDN:
A/Experimental source: strain HR3
R/Ayres, M.D.; Howard, S.C.; Kuzio, J.; Lopez-Ferber, M.; Possee, R.D.
Virology 202, 586-605, 1994
A/Title: The complete DNA sequence of Autographa californica nuclear polyhedrosis virus
A/Reference number: A72850; MUID:94303173; PMID:8030224
A/Accession: A72863
A/Status: preliminary
A/Molecule type: DNA
A/Residues: 1-691 <AYR>
A/Cross-references: UNIPARC:UPI00000138C95; GB:L22858; NID:G510708; PIDN:AAA66734.1; PID:
C/Genetics:
A/Gene: p80; Ac-vp80
A/Map position: 67.2-68.5
C/Superfamily: baculovirus p87 capsid protein
C/Keywords: capsid protein; glycoprotein
F:2,71,102,319/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 50.0%; Score 37; DB 1; Length 691;
Best Local Similarity 50.0%; Pred. No. 1e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 3 YGMALSKINLHN 14
|||:|:|:|:
Db 527 YGSLKRLNLYN 538

RESULT 33
T41845
VP80 orf104 - Bombyx mori nuclear polyhedrosis virus (isolate T3)
C/Species: Bombyx mori nuclear polyhedrosis virus, BmSNPV
A/Variety: isolate T3
C/Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
C/Accession: T41845
R/Gomi, S.; Majima, K.; Maeda, S.
J. Gen. Virol. 80, 1323-1337, 1999
A/Title: Sequence analysis of the genome of Bombyx mori nucleopolyhedrovirus.
A/Reference number: Z22020; MUID:99281911; PMID:10355780
A/Accession: T41845
A/Status: preliminary; translated from GB/EMBL/DBJ
A/Molecule type: DNA
A/Residues: 1-692 <RAM>
A/Cross-references: UNIPROT:092464; UNIPARC:UPI00000F9A16; EMBL:L33180; NID:G3745835; P:
A/Experimental source: isolate T3
C/Genetics:
A/Note: vp80
C/Superfamily: baculovirus p87 capsid protein

Query Match 50.0%; Score 37; DB 2; Length 692;
Best Local Similarity 50.0%; Pred. No. 1e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 3 YGMALSKINLHN 14
|||:|:|:|:
Db 528 YGSLKRLNLYN 539

RESULT 34
JH0265
DNA recombinase (EC 3.6.1.1) - Escherichia coli (strain K-12)
N/Alternate names: RecG protein
C/Species: Escherichia coli
C/Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
C/Accession: JH0265; S18195; F65166
R/Kalman, M.; Murphy, H.; Cashel, M.
Gene 110, 95-99, 1992
A/Title: The nucleotide sequence of recG, the distal spo operon gene in Escherichia coli
A/Reference number: JH0265; MUID:92184121; PMID:1544582

```

A:Accession: JH0265
A:Molecule type: DNA
A:Residues: 1-693 <XAL>
A:Cross-references: UNIPROT:P24230; UNIPARC:UPI000003EB2A; GB:M64367; NID:g147543; PIDN:
A:Experimental source: strain K12
R:Lloyd, R.G.; Sharples, G.J.
J. Bacteriol. 173: 6837-6843, 1991
A:Title: Molecular organization and nucleotide sequence of the recG locus of Escherichia
A:Reference number: S18195; MUID:92041567; PMID:1938888
A:Accession: S18195
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-693 <LLO>
A:Cross-references: UNIPARC:UPI000003EB2A; EMBL:X59550; NID:g42668; PIDN:CA42123.1; PID
R:Blattner, F.R.; Plunkett III, G.; Bloch, C.A.; Perna, N.T.; Burland, V.; Riley, M.; Co
.A.; Rose, D.J.; Mau, B.; Shao, Y.
Science 277, 1453-1462, 1997
A:Title: The complete genome sequence of Escherichia coli K-12.
A:Reference number: A64720; MUID:97426617; PMID:9278503
A:Accession: F65166
A:Status: preliminary; nucleic acid sequence not shown; translation not shown
A:Molecule type: DNA
A:Residues: 1-693 <BLAT>
A:Cross-references: UNIPARC:UPI000003EB2A; GB:AE000442; GB:U00096; NID:g2367253; PIDN:AF
A:Experimental source: strain K-12, substrain MG1655
C:Genetics:
A:Gene: recG
A:Map position: 82 min
C:Superfamily: DNA helicase recG
C:Keywords: ATP; DNA binding; hydrolase; nucleotide binding; P-loop
F:296-303/Region: nucleotide-binding motif A (P-loop)
F:393-398/Region: nucleotide-binding motif B
F:397-400/Region: DEXH motif

Query Match 50.0%; Score 37; DB 1; Length 693;
Best Local Similarity 62.5%; Pred. No. 1e+02;
Matches 10; Conservative 0; Mismatches 2; Indels 4; Gaps 1;

Qy 2 GYGMAALS-----KINLH 13
Db 16 GVGAALSNKLAKINLH 31

RESULT 35
G91194
DNA helicase RecG [imported] - Escherichia coli (strain O157:H7, substrain RIMD 0509952)
C:Species: Escherichia coli
C>Date: 18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 09-Jul-2004
C:Accession: G91194
R:Hayaishi, T.; Makino, K.; Ohnishi, M.; Kurokawa, K.; Ishii, K.; Yokoyama, K.; Han, C.G.
gasawara, N.; Yasunaga, T.; Kuhara, S.; Shiba, T.; Hattori, M.; Shinagawa, H.
DNA Res. 8, 11-22, 2001
A:Title: Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7 and gene
A:Reference number: A99629; MUID:21156231; PMID:11258796
A:Accession: G91194
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-693 <HAY>
A:Cross-references: UNIPROT:Q8XD86; UNIPARC:UPI0000133577; GB:BA000007; PIDN:BA837950.1;
A:Experimental source: strain O157:H7, substrain RIMD 0509952
C:Genetics:
A:Gene: EC84527
C:Superfamily: DNA helicase recG

Query Match 50.0%; Score 37; DB 2; Length 693;
Best Local Similarity 62.5%; Pred. No. 1e+02;
Matches 10; Conservative 0; Mismatches 2; Indels 4; Gaps 1;

Qy 2 GYGMAALS-----KINLH 13
Db 16 GVGAALSNKLAKINLH 31

RESULT 36
H86041
hypothetical protein recG [imported] - Escherichia coli (strain O157:H7, substrain EDL93
C:Species: Escherichia coli
C>Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 14-Sep-2001
C:Accession: H86041
R:Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, J.; Mayhew
iller, L.; Grobeck, E.J.; Davis, L.M.; Lim, A.; Dimalanta, E.; Potamousis, K.; Apodaca,
Nature 409, 529-533, 2001
A:Title: Genome sequence of enterohemorrhagic Escherichia coli O157:H7.
A:Reference number: A85480; MUID:21074935; PMID:11206551
A:Accession: H86041
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-704 <STO>
A:Cross-references: UNIPARC:UPI000016597F; GB:AE005174; NID:g12518411; PIDN:AAG58796.1,
A:Experimental source: strain O157:H7, substrain EDL933
C:Genetics:
A:Gene: recG
C:Superfamily: DNA helicase recG

Query Match 50.0%; Score 37; DB 2; Length 704;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 10; Conservative 0; Mismatches 2; Indels 4; Gaps 1;

Qy 2 GYGMAALS-----KINLH 13
Db 27 GVGAALSNKLAKINLH 42

RESULT 37
A12747
conserved hypothetical protein Atul393 [imported] - Agrobacterium tumefaciens (strain C5
C:Species: Agrobacterium tumefaciens
C>Date: 11-Jan-2002 #sequence_revision 11-Jan-2002 #text_change 09-Jul-2004
C:Accession: A12747
R:Wood, D.W.; Setubal, J.C.; Kaul, R.; Monke, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, L.
erage, G.; Gillet, W.; Grant, C.; Guenther, D.; Kutyavin, T.; Levy, R.; Li, M.; McClell
; Karp, P.; Romero, P.; Zhang, S.
Science 294, 2317-2323, 2001
A:Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm,
ster, E.W.
A:Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58.
A:Reference number: AB2577; MUID:21608550; PMID:11743193
A:Accession: A12747
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-809 <KUR>
A:Cross-references: UNIPROT:Q8UFK4; UNIPARC:UPI00001645E0; GB:AE008688; PIDN:AAL42399.1;
A:Experimental source: strain C58 (Dupont)
C:Genetics:
A:Gene: Atul393
A:Map position: circular chromosome

Query Match 50.0%; Score 37; DB 2; Length 809;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGYGMAL 7
Db 524 MGYGMAL 530

RESULT 38
H97528
hypothetical protein AGR_C_2573 [imported] - Agrobacterium tumefaciens (strain C58, Cere
C:Species: Agrobacterium tumefaciens
C>Date: 30-Sep-2001 #sequence_revision 30-Sep-2001 #text_change 09-Jul-2004
C:Accession: H97528
R:Goodner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Qurollo, B.; Goldman,
A.; Liu, F.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Markelz, B.
Science 294, 2323-2328, 2001
A:Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium tum

```


A:Reference number: A97359; MUID:21608551; PMID:11743194

A:Accession: H97528

A>Status: preliminary

A:Molecule type: DNA

A:Residues: 1-873 <KUR>

A:Cross-references: UNIPROT:Q8UFK4; UNIPARC:UPI00000D1B38; GB:AE007869; PIDN:AAK87185.1;

C:Genetics:

A:Gene: AGR_C_2573

A:Map position: circular chromosome

Query Match 50.0%; Score 37; DB 2; Length 873;

Best Local Similarity 100.0%; Pred. No. 1.3e+02;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGYGMAL 7

Db 588 MGYGMAL 594

RESULT 39

F72592

hypothetical protein APES043 - Aeropyrum pernix (strain K1)

C:Species: Aeropyrum pernix

C>Date: 20-Aug-1999 #sequence_revision 20-Aug-1999 #text_change 09-Jul-2004

C:Accession: F72592

R;Kawarabayashi, Y.; Hino, Y.; Horikawa, H.; Yamazaki, S.; Haikawa, Y.; Jin-no, K.; Takah

awa, H.; Takamiya, M.; Masuda, S.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; K

DNA Res. 6, 83-101, 1999

A:Title: Complete genome sequence of an aerobic hyper-thermophilic Crenarchaeon, Aeropyr

A:Reference number: A72450; MUID:99310339; PMID:10382966

A:Accession: F72592

A>Status: preliminary

A:Molecule type: DNA

A:Residues: 1-79 <KAW>

A:Cross-references: UNIPROT:Q9YQC1; UNIPARC:UPI000005DE61; DDBJ:AP000061; NID:G5104821;

A:Experimental source: strain K1

C:Genetics:

A:Gene: APES043

Query Match 48.6%; Score 36; DB 2; Length 79;

Best Local Similarity 60.0%; Pred. No. 15;

Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 MGYGMALSKI 10

Db 1 MGWGCAMSKV 10

RESULT 40

H83643

polypeptide deformylase PA0019 [imported] - Pseudomonas aeruginosa (strain PA01)

C:Species: Pseudomonas aeruginosa

C>Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 09-Jul-2004

C:Accession: H83643

R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrenner, P.; Hickey, M.J.; B

adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lam,

.; Lory, S.; Olson, M.V.

Nature 406, 959-964, 2000

A:Title: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunistic patho

A:Reference number: A82950; MUID:20437337; PMID:10984043

A:Accession: H83643

A>Status: preliminary

A:Molecule type: DNA

A:Residues: 1-168 <STO>

A:Cross-references: UNIPROT:Q9I7A8; UNIPARC:UPI000012915C; GB:AE004441; GB:AE004091; NID

A:Experimental source: strain PA01

C:Genetics:

A:Gene: def; PA0019

C:Superfamily: peptide deformylase

Query Match 48.6%; Score 36; DB 2; Length 168;

Best Local Similarity 41.7%; Pred. No. 34;

Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 2 GYGMALSKINLH 13

Db 44 GIGLAATQNVNH 55

Search completed: May 13, 2006, 08:14:40

Job time : 42 secs

GenCore version 5.1.1.8
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OM protein - protein search, using sw model

Run on: May 13, 2006, 08:08:53 ; Search time 226 Seconds
(without alignments)
43.705 Million cell updates/sec

Title: US-10-769-514-17

Perfect score: 74

Sequence: 1 MGYMALSKINLHN 14

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Uniprot 05.80.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	74	100.0	702	2	O85050_MORCA
2	65	87.8	706	2	O85052_MORCA
3	63	85.1	714	2	O85056_MORCA
4	46	62.2	188	1	YAAH_ECOLI
5	46	62.2	188	2	O57TP6_SALCH
6	46	62.2	188	2	O5PDN1_SALPA
7	46	62.2	188	2	O7CRA2_SALTY
8	46	62.2	188	2	O8FLC8_ECOL6
9	46	62.2	188	2	O8XGB2_SALTI
10	46	62.2	189	2	O7N8Y5_PHOLL
11	46	62.2	191	2	O6D0B6_ERWCT
12	46	62.2	196	2	O74Q11_YERPE
13	46	62.2	197	2	O6MOC3_METMP
14	46	62.2	203	2	O8ZIM8_YERPE
15	46	62.2	203	2	O66ET1_YERPS
16	46	62.2	851	2	O5C075_CRYPV
17	44	59.5	183	2	O727R6_DESVH
18	44	59.5	185	2	O6AK78_DESPS
19	44	59.5	186	2	O7P0P5_CHRVO
20	44	59.5	189	2	O8EBD7_SHEON
21	44	59.5	196	2	O87S04_VIBPA
22	44	59.5	197	2	O6LPH7_PHOPR
23	44	59.5	197	2	O8DF09_VIBU
24	44	59.5	197	2	O9KTW0_VIBCH
25	44	59.5	197	2	O7MND9_VIBY
26	44	59.5	200	2	O8PYF9_METWA
27	44	59.5	201	2	O8TIY1_METAC
28	44	59.5	343	2	O4UYJ0_XANCP
29	44	59.5	343	2	O8P5I5_XANCP
30	44	59.5	362	2	O6MST2_MYCMS
31	44	59.5	501	2	O4H6L8_9DEIO

32	44	59.5	694	2	Q4RYL2_TETNG
33	44	59.5	887	2	O899T2_CLOTE
34	43	58.1	102	1	RS24_AERPE
35	43	58.1	214	2	Q4NQB2_9BELT
36	42	56.8	541	2	Q4IKZ0_GIBZE
37	42	56.8	696	1	SLIK1_HUMAN
38	42	56.8	696	1	SLIK1_MOUSE
39	42	56.8	696	1	Q5U5I6_HUMAN
40	42	56.8	696	2	Q5RAC4_PONPY
41	42	56.8	760	2	Q89Z70_MOUSE
42	42	56.8	918	1	Y011_CLOPE
43	41	55.4	303	2	Q9N6G9_LEIMA
44	41	55.4	363	2	Q74EF8_GEOSL
45	41	55.4	370	2	Q9N686_LEIMA
46	41	55.4	478	2	Q8MXL0_LEIMA
47	41	55.4	894	2	Q74YT9_YERPE
48	41	55.4	906	1	Y010_CIOAB
49	41	55.4	1472	2	O8A936_BACTN
50	40	54.1	195	2	Q8E5Q1_VIBF1
51	40	54.1	216	2	Q9FY32_DIGLA
52	40	54.1	310	2	Q93L64_BACTI
53	40	54.1	423	2	Q58EH8_BRARE
54	40	54.1	429	1	MTAL_ACEPA
55	40	54.1	429	2	P70750_ACEPA
56	40	54.1	432	1	HEM1_XYLFA
57	40	54.1	432	1	HEM1_XYLFT
58	40	54.1	569	2	O8KNX1_BACTI
59	40	54.1	569	2	Q74NY4_BACCL
60	40	54.1	607	2	Q9K5R2_BACHD
61	40	54.1	665	2	Q4RXK0_TETNG
62	40	54.1	753	2	Q83AL7_COXBU
63	40	54.1	1122	2	Q23682_CABEL
64	40	54.1	7214	2	Q5AUZ6_EMENI
65	39.5	53.4	1854	2	Q63131_RAT
66	39.5	53.4	2317	2	Q63130_RAT
67	39.5	53.4	2338	2	Q63132_RAT
68	39	52.7	89	1	USG_CAUCR
69	39	52.7	204	1	Y215_METTH
70	39	52.7	343	2	O8PGX5_XANAC
71	39	52.7	368	2	Q72KY8_THET2
72	39	52.7	380	2	Q7RP13_PLAYO
73	39	52.7	406	2	Q5H3W6_XANOR
74	39	52.7	407	2	Q9AEU0_STRGN
75	39	52.7	444	2	O5LD01_BACFN
76	39	52.7	487	2	Q5M8Z3_XENTR
77	39	52.7	521	2	Q5X8G4_LEGPA
78	39	52.7	521	2	Q5ZYI3_LEGPH
79	39	52.7	580	2	Q7QHE9_ANOGA
80	39	52.7	615	2	Q600M4_MYCHY
81	39	52.7	919	2	Q4UBP6_THEAN
82	39	52.7	1032	1	Y1060_SYNY3
83	39	52.7	6256	2	Q4U446_POLCB
84	38.5	52.0	518	2	O897Y2_CLOTE
85	38	51.4	105	2	Q64EA9_9ARCH
86	38	51.4	132	2	Q6LYY7_METMP
87	38	51.4	171	2	Q6SKZ5_9CRUS
88	38	51.4	181	2	Q4K7U4_PSEFS
89	38	51.4	194	2	Q5QV66_IDILO
90	38	51.4	196	2	Q7SX89_BRARE
91	38	51.4	206	2	Q4WBP5_ASPFU
92	38	51.4	251	2	Q883W8_PSESM
93	38	51.4	273	2	Q9M501_9LILI
94	38	51.4	279	2	Q6FRE4_CANGA
95	38	51.4	282	2	Q97FS1_CLOAB
96	38	51.4	290	2	Q6KYW8_PICOT
97	38	51.4	291	2	Q4RF21_TETNG
98	38	51.4	316	2	Q48999_MYCCA
99	38	51.4	366	2	Q4L6Q9_STEHAJ
100	38	51.4	391	2	Q4U1L9_STEHAJ

ALIGNMENTS

Q4RYL2 tetraodon n
Q899T2 clostridium
Q9VCY0 aeropyrum p
Q4NQB2 anaeromyxob
Q4IKZ0 gibberella
Q96PX8 homo sapien
Q810C1 mus musculu
Q5U5I6 homo sapien
Q5RAC4 pongo pygma
Q89Z70 mus musculu
Q89Z70 clostridium
Q89Z70 leishmania
Q74EF8 geobacter s
Q9N686 leishmania
Q8MXL0 leishmania
Q74YT9 versinia pe
Q9N28 clostridium
Q89936 bacteroides
Q95Q1 vibrio fisc
Q9FY32 digitalis l
Q93L64 bacillus th
Q58EH8 brachydanio
Q52702 acetobacter
P70750 acetobacter
Q9PA72 xyliella fas
Q87A18 xyliella fas
Q8KNX1 bacillus th
Q74NY4 bacillus ce
Q9K5R2 bacillus ha
Q4RXK0 tetraodon n
Q83AL7 coxiella bu
Q23682 caenorhabdi
Q5AUZ6 aspergillus
Q63131 rattus norv
Q63132 rattus norv
P12288 caulobacter
Q6317 methanobact
Q86PX5 xanthomonas
Q72KY8 thermus the
Q7RP13 plasmodium
Q5H3W6 xanthomonas
Q9AEU0 streptococc
Q5LDQ1 bacteroides
Q5M8Z3 xenopus tro
Q5X8G4 legionella
Q5ZYI3 legionella
Q7QHE9 anopheles g
Q600M4 mycoplasma
Q4UBP6 theileria a
P72537 synechocyst
Q4U446 polyangium
Q897Y2 clostridium
Q64EA9 uncultured
Q6LYY7 methanococc
Q6SKZ5 hutchinsoni
Q4K7U4 pseudomonas
Q5QV66 idiomarina
Q7SX89 brachydanio
Q4WBP5 aspergillus
Q883W8 pseudomonas
Q9M501 dioscorea a
Q6FRE4 candida gla
Q97FS1 clostridium
Q6KYW8 picrophilus
Q4RF21 tetraodon n
Q48999 mycoplasma
Q4L6Q9 staphylococ
Q4U1L9 theileria a

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Db          100 MGYGMALSKINLH 112

RESULT 3
O85056 MORCA
ID 085050 MORCA PRELIMINARY; PRT; 714 AA.
AC O85056;
DT 01-NOV-1998 (TrEMBLrel. 08, Created)
DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
DE Transferrin binding protein B.
GN Name=tbpB;
OS Moraxella catarrhalis.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
OC Moraxellaceae; Moraxella.
OX NCBI_TaxID=480;
RN [1];
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=M35;
RX MEDLINE=98380363; PubMed=9712766;
RA Myers L.E., Yang Y.P., Du R.P., Wang Q., Harkness R.E.,
RA Schryvers A.B., Klein M.H., Loomore S.M.;
RT "The transferrin binding protein B of Moraxella catarrhalis elicits
RT bactericidal antibodies and is a potential vaccine antigen.";
RL Infect. Immun. 66:4183-4192(1998).
DR EMBL; AF039312; AAC34277.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR001677; F:transferrin receptor activity; IEA.
DR Pfam; PF01298; Lipoprotein_5; 1.
SQ SEQUENCE 714 AA; 76846 MW; F5B1174C4815B4EA CRC64;

Query Match 85.1%; Score 63; DB 2; Length 714;
Best Local Similarity 85.7%; Pred. No. 0.019;
Matches 12; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy          1 MGYGMALSKINLH 14
Db          100 MGYGMALSKINLH 113

RESULT 4
YAAH ECOLI
ID YAAH_ECOLI STANDARD; PRT; 188 AA.
AC P28695; O8K0W2;
DT 01-DEC-1992 (Rel. 24, Created)
DT 01-DEC-1992 (Rel. 24, Last sequence update)
DT 13-SEP-2005 (Rel. 48, Last annotation update)
DE Inner membrane protein yaaH.
GN Name=yaaH; OrderedLocusNames=b0010, z0010, ECs0010, SF0011, S0010;
OS Escherichia coli,
OS Escherichia coli O157:H7, and
OS Shigella flexneri.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Escherichia.
OX NCBI_TaxID=562, 83334, 623;
RN [1];
RP NUCLEOTIDE SEQUENCE.
RC SPECIES=E.coli;
RX MEDLINE=94003405; PubMed=8400364;
RA James R., Bean D.O., Debbage J.;
RT "Five open reading frames upstream of the dnaK gene of E. coli.";
RL DNA Seq. 3:327-332(1993).
RN [2];
RP NUCLEOTIDE SEQUENCE.
RC SPECIES=E.coli; STRAIN=K12;
RX MEDLINE=92334977; PubMed=1630901;
RA Yura T., Mori H., Nagai H., Nagata T., Ishihama A., Fujita N.,
RA Isono K., Mizobuchi K., Nakata A.;
RT "Systematic sequencing of the Escherichia coli genome: analysis of the
RT 0-2.4 min region.";
RL Nucleic Acids Res. 20:3305-3308(1992).
```

```

RN NP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC SPECIES=E.coli; STRAIN=K12 / MG1655;
RX MEDLINE=97426617; PubMed=9278503; DOI=10.1126/science.277.5331.1453;
RA Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V.,
RA Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F.,
RA Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J.,
RA Mau B., Shao Y.;
RT "The complete genome sequence of Escherichia coli K-12.";
RL Science 277:1453-1474(1997).
[4]
RN NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC SPECIES=E.coli; STRAIN=O157:H7 / EDL933 / ATCC 700927 / EHEC;
RX MEDLINE=21074935; PubMed=11206551; DOI=10.1038/35054089;
RA Perna N.T., Plunkett G. III, Burland V., Mau B., Glasner J.D.,
RA Rose D.J., Mayhew G.F., Evans P.S., Gregor J., Kirkpatrick H.A.,
RA Postfai G., Hackett J., Klink S., Boutin A., Shao Y., Miller L.,
RA Grobeck E.J., Davis N.W., Lim A., Dimalanta E.T., Potamouisis K.,
RA Apodaca J., Anantharaman T.S., Lin J., Yen G., Schwartz D.C.,
RA Welch R.A., Blattner F.R.;
RT "Genome sequence of enterohaemorrhagic Escherichia coli O157:H7.";
RL Nature 409:529-533(2001).
[5]
RN NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC SPECIES=E.coli; STRAIN=O157:H7 / Sakai / RIMD 0509952 / EHEC;
RX MEDLINE=21156231; PubMed=11258796;
RA Hayashi T., Makino K., Onishi M., Kurokawa K., Ishii K., Yokoyama K.,
RA Han C.-G., Ohtsubo E., Nakayama K., Murata T., Tanaka M., Tobe T.,
RA Iida T., Takami H., Honda T., Sasakawa C., Ogasawara N., Yasunaga T.,
RA Kuhara S., Shiba T., Hattori M., Shinagawa H.;
RT "Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7 and genomic comparison with a laboratory strain K-12.";
RL DNA Res. 8:11-22(2001).
[6]
RN NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC SPECIES=flexneri; STRAIN=301 / Serotype 2a;
RX MEDLINE=22272406; PubMed=12384590; DOI=10.1093/nar/gkf566;
RA Jin Q., Yuan Z., Xu J., Wang Y., Shen Y., Lu W., Wang J., Liu H.,
RA Yang J., Yang F., Zhang J., Zhang J., Yang G., Wu H., Qu D., Dong J.,
RA Sun L., Xue Y., Zhao A., Gao Y., Zhu J., Kan B., Ding K., Chen S.,
RA Cheng H., Yao Z., He B., Chen R., Ma D., Qiang B., Wen Y., Hou Y.,
RA Yu J.;
RT "Genome sequence of Shigella flexneri 2a: insights into pathogenicity through comparison with genomes of Escherichia coli K12 and O157.";
RL Nucleic Acids Res. 30:4432-4441(2002).
[7]
RN NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC SPECIES=flexneri; STRAIN=2457T / ATCC 700930 / Serotype 2a;
RX MEDLINE=22590274; PubMed=12704152;
RA Wei J., Goldberg M.B., Burland V., Venkatesan M.M., Deng W.,
RA Fournier G., Mayhew G.F., Plunkett G. III, Rose D.J., Darling A.,
RA Mau B., Perna N.T., Payne S.M., Runyen-Janecky L.J., Zhou S.,
RA Schwartz D.C., Blattner F.R.;
RT "Complete genome sequence and comparative genomics of Shigella flexneri serotype 2a strain 2457T.";
RL Infect. Immun. 71:2775-2786(2003).
[8]
RN TOPOLOGY.
RC SPECIES=E.coli; STRAIN=K12 / MG1655;
RX PubMed=15919996; DOI=10.1126/science.1109730;
RA Daley D.O., Rapp M., Graneth E., Melen K., Drew D., von Heijne G.;
RT "Global topology analysis of the Escherichia coli inner membrane proteome.";
RL Science 308:1321-1323(2005).
CC -1- SUBCELLULAR LOCATION: Integral membrane protein. Inner membrane.
CC -1- SIMILARITY: Belongs to the GPR1/FUN34/yaah family.
CC
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CC EMBL: X67700; CAA47931.1; -; Genomic_DNA.
DR EMBL: D10483; BAB96588.1; -; Genomic_DNA.
DR EMBL: U00096; AAC73121.1; -; Genomic_DNA.
DR EMBL: AE005174; AAG54310.1; -; Genomic_DNA.
DR EMBL: BA000007; BAB33433.1; -; Genomic_DNA.
DR EMBL: AE005674; AAN41677.1; -; Genomic_DNA.
DR EMBL: AE016978; AAP15556.1; -; Genomic_DNA.
DR PIR: B85481; B85481.
DR PIR: B90630; B90630.
DR PIR: E56688; E56688.
DR EcoBASE; EB1474; -.
DR EcoGene; EG11512; Yaah.
DR InterPro; IPR000791; Grp1_Fun34_Yeah.
DR Pfam; PF01184; Grp1_Fun34_Yeah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yeah; 1.
DR PROSITE; PS01114; GPR1_FUN34_YAAH; 1.
KW Complete proteome; Inner membrane; Membrane; Transmembrane.
FT TOPO_DOM 1 13 Cytoplasmic (Potential).
FT TRANSMEM 14 34 Potential.
FT TOPO_DOM 35 35 Periplasmic (Potential).
FT TRANSMEM 36 56 Potential.
FT TOPO_DOM 57 63 Cytoplasmic (Potential).
FT TRANSMEM 64 84 Potential.
FT TOPO_DOM 85 97 Periplasmic (Potential).
FT TRANSMEM 98 118 Potential.
FT TOPO_DOM 119 122 Cytoplasmic (Potential).
FT TRANSMEM 123 143 Potential.
FT TOPO_DOM 144 148 Periplasmic (Potential).
FT TRANSMEM 149 169 Potential.
FT TOPO_DOM 170 188 Cytoplasmic (Potential).
FT CONFLICT 111 111 L -> V (in Ref. 2).
SQ SEQUENCE 188 AA; 20071 MW; 972101DD5949EBF4 CRC64;
Query Match 62.2%; Score 46; DB 1; Length 188;
Best Local Similarity 57.1%; Pred. No. 6.4;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
QY 1 MCGYGNALSKINLHN 14
DB 15 MGFGMTTILLNLHN 28
RESULT 5
Q57TP6 SALCH
ID Q57TP6 SALCH PRELIMINARY; PRT; 188 AA.
AC Q57TP6;
DT 10-MAY-2005 (TrEMBLrel. 30, Created)
DT 10-MAY-2005 (TrEMBLrel. 30, Last sequence update)
DT 10-MAY-2005 (TrEMBLrel. 30, Last annotation update)
DE Putative regulator.
GN Names=yaah; OrderedlocusNames=SC0009;
OS Salmonella cholerae-suis (Salmonella enterica).
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Salmonella.
OX NCBI_TaxID=591;
RN [1]
RP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC STRAIN=SC-B67;
RX PubMed=15781495;
RA Chiu C.-H., Tang P., Chu C., Hu S., Bao Q., Yu J., Chou Y.-Y.,
RA Wang H.-S., Lee Y.-S.;
RT "The genome sequence of Salmonella enterica serovar Choleraesuis, a highly invasive and resistant zoonotic pathogen.";
RL Nucleic Acids Res. 33:1690-1698(2005).
DR EMBL: AE017220; AAX63915.1; -; Genomic_DNA.
KW Complete proteome.
SQ SEQUENCE 188 AA; 19933 MW; 4D655AC780BBB808 CRC64;
Query Match 62.2%; Score 46; DB 2; Length 188;
Best Local Similarity 57.1%; Pred. No. 6.4;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

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OY 1 MGYGMALSKINLHN 14
DB 15 MGFGMTTILLNLN 28

RESULT 6
QSPDN1_SALPA
ID QSPDN1_SALPA PRELIMINARY; PRT; 188 AA.
AC QSPDN1; 2005 (T-EMBLrel. 29, Created)
DT 01-FEB-2005 (T-EMBLrel. 29, Last sequence update)
DT 01-FEB-2005 (T-EMBLrel. 29, Last annotation update)
DE Hypothetical protein yaah.
GN Name=yaah; OrderedLocusNames=SPA0009;
OS Salmonella paratyphi-a.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Salmonella.
OX NCBI_TaxID=54388;
RN NUCLEOTIDE SEQUENCE.
RP STRAIN=ATCC 9150;
RC PubMed=15531882; DOI=10.1038/ng1470;
RA McClelland M., Sanderson K.E., Clifton S.W., Latreille P.,
RA Porwollik S., Sabo A., Meyer R., Bieri T., Ozersky P., McCellan M.,
RA Watkins C.R., Wang C., Nguyen C., Berghoff A., Elliott G.,
RA Kohlberg S., Strong C., Du F., Carter J., Krenitzki C., Layman D.,
RA Leonard S., Sun H., Fulton L., Nash W., Miner T., Minx P.,
RA Delehaunty K., Fronick C., Magrini V., Nhan M., Warren W., Florea L.,
RA Spieth J., Wilson R.K.;
RT "Comparison of genome degradation in Paratyphi A and Typhi, human-
RT restricted serovars of Salmonella enterica that cause typhoid.";
RL Nat. Genet. 36:1268-1274 (2004).
DR EMBL; CP000026; AAV76047.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; GRP1_FUN34_YAAB; 1.
KW Complete proteome; Hypothetical protein.
SQ SEQUENCE 188 AA; 19962 MW; 9CE9B7D3D1BEAD41 CRC64;

Query Match 62.2%; Score 46; DB 2; Length 188;
Best Local Similarity 57.1%; Pred. No. 6.4;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

OY 1 MGYGMALSKINLHN 14
DB 15 MGFGMTTILLNLN 28

RESULT 7
Q7CRA2_SALTY
ID Q7CRA2_SALTY PRELIMINARY; PRT; 188 AA.
AC Q7CRA2;
DT 05-JUL-2004 (T-EMBLrel. 27, Created)
DT 05-JUL-2004 (T-EMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (T-EMBLrel. 27, Last annotation update)
DE Putative regulatory protein.
GN Name=yaah; OrderedLocusNames=STM0009;
OS Salmonella typhimurium.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Salmonella.
OX NCBI_TaxID=602;
RN NUCLEOTIDE SEQUENCE.
RP STRAIN=LT2;
RC MEDLINE=21534948; PubMed=11677609; DOI=10.1038/35101614;
RA McClelland M., Sanderson K.E., Spieth J., Clifton S.W., Latreille P.,
RA Courtney L., Porwollik S., Ali J., Dante M., Du R., Hou S., Layman D.,
RA Leonard S., Nguyen C., Scott K., Holmes A., Grewal N., Mulvaney E.,
RA Ryan B., Sun H., Florea L., Miller W., Stoneking T., Nhan M.,
RA Waterston R., Wilson R.K.;
RT "Complete genome sequence of Salmonella enterica serovar Typhimurium
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LT2.";
RT Nature 413:852-856 (2001).
DR EMBL; AE008693; AAL19973.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; GRP1_FUN34_YAAB; 1.
KW Complete proteome.
SQ SEQUENCE 188 AA; 19933 MW; 4D655AC780BBB808 CRC64;

Query Match 62.2%; Score 46; DB 2; Length 188;
Best Local Similarity 57.1%; Pred. No. 6.4;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

OY 1 MGYGMALSKINLHN 14
DB 15 MGFGMTTILLNLN 28

RESULT 8
Q8FLC8_ECOL6
ID Q8FLC8_ECOL6 PRELIMINARY; PRT; 188 AA.
AC Q8FLC8;
DT 01-MAR-2003 (T-EMBLrel. 23, Created)
DT 01-MAR-2003 (T-EMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
DE Hypothetical protein yaah.
GN Name=yaah; OrderedLocusNames=c0015;
OS Escherichia coli O6.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Escherichia.
OX NCBI_TaxID=217992;
RN NUCLEOTIDE SEQUENCE.
RP STRAIN=O6:H1 / CFT073 / ATCC 700928;
RC MEDLINE=22388234; PubMed=12471157; DOI=10.1073/pnas.252529799;
RA Welch R.A., Burland V., Plunkett G. III, Redford P., Roesch P.,
RA Rasko D., Buckles E.L., Liou S.-R., Boutin A., Hackett J., Stroud D.,
RA Mayhew G.F., Rose D.J., Zhou S., Schwartz D.C., Perna N.T.,
RA Mobley H.L.T., Donnenberg M.S., Blattner F.R.;
RT "Extensive mosaic structure revealed by the complete genome sequence
RT of uropathogenic Escherichia coli.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:17020-17024 (2002).
DR EMBL; AE016755; AAN78515.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; GRP1_FUN34_YAAB; 1.
KW Complete proteome; Hypothetical protein.
SQ SEQUENCE 188 AA; 20085 MW; 815BBD1B23F53BF4 CRC64;

Query Match 62.2%; Score 46; DB 2; Length 188;
Best Local Similarity 57.1%; Pred. No. 6.4;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

OY 1 MGYGMALSKINLHN 14
DB 15 MGFGMTTILLNLN 28

RESULT 9
Q8XGB2_SALTI
ID Q8XGB2_SALTI PRELIMINARY; PRT; 188 AA.
AC Q8XGB2; 07ANN8;
DT 01-MAR-2002 (T-EMBLrel. 20, Created)
DT 01-MAR-2002 (T-EMBLrel. 20, Last sequence update)
DT 13-SEP-2005 (T-EMBLrel. 31, Last annotation update)
DE Hypothetical protein yaah (Hypothetical protein STY0009).
GN Name=yaah; OrderedLocusNames=STY0009, t0009;
OS Salmonella typhi.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
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OC Enterobacteriaceae; Salmonella.
 OX NCBI_TaxID=601;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=TY2 / ATCC 700931;
 RX MEDLINE=22531367; PubMed=12644504;
 RI DOI=10.1128/JB.185.7.2330-2337.2003;
 RA Deng W., Liou S.-R., Plunkett G. III, Mayhew G.P., Rose D.J.,
 RA Burland V., Kodoyianni V., Schwartz D.C., Blattner F.R.;
 RT "Comparative genomics of Salmonella enterica serovar Typhi strains Ty2
 and CT18";
 RL J. Bacteriol. 185:2330-2337 (2003).
 RN [2]
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=CT18;
 RX MEDLINE=21534947; PubMed=11677608; DOI=10.1038/35101607;
 RI Parkhill J., Dougan G., James K.D., Thomson N.R., Pickard D., Wain J.,
 RA Churcher C.M., Mungall K.L., Bentley S.D., Holden M.T.G., Sebahia M.,
 RA Baker S., Basham D., Brooks K., Chillingworth T., Connor P.,
 RA Cronin A., Davis P., Davies R.M., Dowd L., White N., Farrar J.,
 RA Felwell T., Hamlin N., Haque A., Hien T.T., Holroyd S., Jagels K.,
 RA Krogh A., Larsen T.S., Leather S., Moule S., O'Gaora P., Parry C.,
 RA Quail M.A., Rutherford K.M., Simmonds M., Skelton J., Stevens K.,
 RA Whitehead S., Barrell B.G.;
 RT "Complete genome sequence of a multiple drug resistant Salmonella
 enterica serovar Typhi CT18";
 RL Nature 413:848-852 (2001).
 DR EMBL; AR016834; AAC67743.1; -; Genomic DNA.
 DR EMBL; AL627265; CAD01162.1; -; Genomic DNA.
 DR GO; GO:0016020; C:membrane; IEA.
 DR InterPro; IPR000791; Grp1_Fun34_Yaah.
 DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
 DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
 DR PROSITE; PS01114; GPRI_FUN34_YAAH; 1.
 KW Complete proteome; Hypothetical protein.
 KX SEQUENCE 188 AA; 19933 MW; 4D655AC780BBB808 CRC64;
 SQ
 Query Match 62.2%; Score 46; DB 2; Length 188;
 Best Local Similarity 57.1%; Pred. No. 6.4;
 Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
 QY 1 MGYGMALSKINLNH 14
 DB 15 MGFGMTTILLNLHN 28
 RESULT 10
 Q7N8Y5 PHOLL
 ID Q7N8Y5_PHOLL PRELIMINARY; PRT; 189 AA.
 AC Q7N8Y5;
 DT 01-MAR-2004 (TrEMBLrel. 26, Created)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE Similar to unknown protein yaah of Escherichia coli.
 GN OrderedLocusNames=plu0578;
 OS Photobacterium luminescens (subsp. laumondii).
 OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
 OC Enterobacteriaceae; Photobacterium.
 OX NCBI_TaxID=141679;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=TT01;
 RX MEDLINE=22957627; PubMed=14528314; DOI=10.1038/nbt886;
 RI Duchaud E., Rusniok C., Frangeul L., Buchrieser C., Givaudan A.,
 RA Taurit S., Bocs S., Bouraux-Eude C., Chandel M., Charles J.-F.,
 RA Dassa E., Deroose R., Derzelle S., Freysinet G., Gaudriault S.,
 RA Medigue C., Lanois A., Powell K., Siguler P., Vincent R., Wingate V.,
 RA Zouine M., Glaser P., Boenare N., Danchin A., Kunst F.;
 RT "The genome sequence of the entomopathogenic bacterium Photobacterium
 luminescens";
 RL Nat. Biotechnol. 21:1307-1313 (2003).
 DR EMBL; BX571860; CAE12873.1; -; Genomic DNA.
 DR Photol1st; plu0578; -.

DR GO; GO:0016020; C:membrane; IEA.
 DR InterPro; IPR000791; Grp1_Fun34_Yaah.
 DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
 DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
 KW Complete proteome.
 SQ SEQUENCE 189 AA; 20289 MW; E9D5C44D35306A7F CRC64;
 Query Match 62.2%; Score 46; DB 2; Length 189;
 Best Local Similarity 57.1%; Pred. No. 6.4;
 Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
 QY 1 MGYGMALSKINLNH 14
 DB 15 MGFGMTTILLNLHN 28
 RESULT 11
 Q6D0B6 ERWCT
 ID Q6D0B6_ERWCT PRELIMINARY; PRT; 191 AA.
 AC Q6D0B6;
 DT 25-OCT-2004 (TrEMBLrel. 28, Created)
 DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
 DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
 DE Putative membrane protein.
 GN OrderedLocusNames=ECA3883;
 OS Erwinia carotovora (subsp. atroseptica) (Pectobacterium atrosepticum).
 OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
 OC Enterobacteriaceae; Pectobacterium.
 OX NCBI_TaxID=29471;
 RN [1]
 RP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
 RC STRAIN=SCRI 1043 / ATCC BAA-672;
 RX PubMed=15263089; DOI=10.1073/pnas.0402424101;
 RA Bell K.S., Sebahia M., Pritchard L., Holden M.T.G., Hyman L.J.,
 RA Holsa M.C., Thomson N.R., Bentley S.D., Churcher L.J.C., Mungall K.,
 RA Atkin R., Bason N., Brooks K., Chillingworth T., Clark K., Doggett J.,
 RA Fraser A., Hance Z., Hauser H., Jags K., Moule S., Norbertczak H.,
 RA Ormond D., Price C., Quail M.A., Sanders M., Walker D., Whitehead S.,
 RA Salmond D.P.C., Birch P.R.J., Parkhill J., Toth I.K.;
 RT "Genome sequence of the enterobacterial phytopathogen Erwinia
 carotovora subsp. atroseptica and characterization of virulence
 factors";
 RT Proc. Natl. Acad. Sci. U.S.A. 101:11105-11110 (2004).
 RL EMBL; BX950851; CAG76781.1; -; Genomic DNA.
 DR GO; GO:0016020; C:membrane; IEA.
 DR InterPro; IPR000791; Grp1_Fun34_Yaah.
 DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
 DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
 KW Complete proteome.
 SQ SEQUENCE 191 AA; 20218 MW; 475605990E163AC1 CRC64;
 Query Match 62.2%; Score 46; DB 2; Length 191;
 Best Local Similarity 57.1%; Pred. No. 6.5;
 Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
 QY 1 MGYGMALSKINLNH 14
 DB 15 MGFGMTTILLNLHN 28
 RESULT 12
 Q74Q11 YERPE
 ID Q74Q11_YERPE PRELIMINARY; PRT; 196 AA.
 AC Q74Q11;
 DT 05-JUL-2004 (TrEMBLrel. 27, Created)
 DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
 DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
 DE Putative membrane protein.
 GN OrderedLocusNames=YF3713;
 OS Yersinia pestis.
 OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
 OC Enterobacteriaceae; Yersinia.
 OX NCBI_TaxID=632;

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RN NUCLEOTIDE SEQUENCE.
RP STRAIN=91001;
RX PubMed=15368893;
RA Song Y., Tong Z., Wang J., Wang L., Guo Z., Han Y., Zhang J., Pei D.,
RA Zhou D., Qin H., Pang X., Han Y., Zhai J., Li M., Cui B., Qi Z.,
RA Jin L., Dai R., Chen F., Li S., Ye C., Du Z., Lin W., Wang J., Yu J.,
RA Wang H., Wang J., Huang P., Yang R.;
RA "Complete genome sequence of Yersinia pestis strain 91001, an isolate
RT avirulent to humans.";
RL DNA Res. 11:179-197(2004).
DR EMBL: AE017141; RA563861.1; -: Genomic_DNA.
DR GO: GO:0016020; C:membrane; IEA.
DR InterPro: IPR000791; Grp1_Fun34_Yaah.
DR Pfam: PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom: PD010188; Grp1_Fun34_Yaah; 1.
SQ SEQUENCE 196 AA; 21046 MW; B74D3F30EDC2047D CRC64;

Query Match 62.2%; Score 46; DB 2; Length 196;
Best Local Similarity 57.1%; Pred. No. 6.6;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
|||:|||||
DB 15 MGFGMTTVLLNLHN 28

RESULT 13
ID Q6MOC3 METMP PRELIMINARY; PRT; 197 AA.
AC Q6MOC3;
DT 05-JUL-2004 (T-EMBLrel. 27, Created)
DT 05-JUL-2004 (T-EMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (T-EMBLrel. 27, Last annotation update)
DE Hypothetical protein
GN OrderedLocusNames=WP0348;
OS Methanococcus maripaludis;
OC Archaea; Euryarchaeota; Methanococci; Methanococcales;
OC Methanococcaceae; Methanococcus.
OX NCBI_TaxID=39152;
RN NUCLEOTIDE SEQUENCE.
RC STRAIN=S2 / LL;
RX PubMed=15466049; DOI=10.1128/JB.186.20.6956-6969.2004;
RA Hendrickson E.L., Kaul R., Zhou Y., Bovee D., Chapman P., Chung J.,
RA Conway de Macario E., Dodsworth J.A., Gillett W., Graham D.E.,
RA Hackett M., Haydock A.K., Kang A., Land M.L., Levy R., Lie T.J.,
RA Major T.A., Moore B.C., Porat I., Palmeiri A., Rouse G.,
RA Saenphimmachak C., Soell D., Van Dien S., Wang T., Whitman W.B.,
RA Xia Q., Zhang Y., Larimer F.W., Olson M.V., Leigh J.A.;
RT "Complete genome sequence of the genetically tractable
RT hydrogenotrophic methanogen Methanococcus maripaludis.";
RL J. Bacteriol. 186:6956-6969(2004).
DR EMBL: BX957219; CAP29304.1; -: Genomic_DNA.
DR GO: GO:0016020; C:membrane; IEA.
DR InterPro: IPR000791; Grp1_Fun34_Yaah.
DR Pfam: PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom: PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE: PS01114; GRP1_FUN34_YAAB; 1.
DR Complete proteome; Hypothetical protein.
SQ SEQUENCE 197 AA; 21273 MW; 1C27A47FBB95A1BE CRC64;

Query Match 62.2%; Score 46; DB 2; Length 197;
Best Local Similarity 57.1%; Pred. No. 6.7;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
|||:|||||
DB 21 MGFGMTTVLLNLHN 34

RESULT 14
Q821M8_YERPE

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ID Q821M8_YERPE PRELIMINARY; PRT; 203 AA.
AC Q821M8; Q7CG75;
DT 01-MAR-2002 (T-EMBLrel. 20, Created)
DT 01-MAR-2002 (T-EMBLrel. 20, Last sequence update)
DT 01-FEB-2005 (T-EMBLrel. 29, Last annotation update)
DE Putative membrane protein (Hypothetical protein Y3707).
GN Name=Yaah; OrderedLocusNames=YPO0467, Y3707;
OS Yersinia pestis.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Yersinia.
OX NCBI_TaxID=632;
RN NUCLEOTIDE SEQUENCE.
RP STRAIN=CO-92 / Biovar Orientalis;
RX MEDLINE=21470413; PubMed=11586360; DOI=10.1038/35097083;
RA Parkhill J., Wren B.W., Thomson N.R., Titball R.W., Holden M.T.G.,
RA Prentice M.B., Sebahia M., James K.D., Churcher C.M., Mungall K.L.,
RA Baker S., Basham D., Bentley S.D., Brooks K., Cerdeno-Tarraga A.-M.,
RA Chillingworth T., Cronin A., Davies R.M., Davis P., Dougan G.,
RA Feltwell T., Hamlin N., Holroyd S., Jagels K., Karlyshev A.V.,
RA Leather S., Moule S., Oyston P.C.F., Quail M.A., Rutherford K.M.,
RA Simmonds M., Skelton J., Stevens K., Whitehead S., Barrall B.G.;
RA "Genome sequence of Yersinia pestis, the causative agent of plague.";
RL Nature 413:523-527(2001).
[2]
RN NUCLEOTIDE SEQUENCE.
RP STRAIN=KIMS / Biovar Mediaevalis;
RX MEDLINE=22137863; PubMed=12142430;
DOI=10.1128/JB.184.16.4601-4611.2002;
RA Deng W., Burland V., Plunkett G. III, Boutin A., Mayhew G.F., Liss P.,
RA Perna N.T., Rose D.J., Mau B., Zhou S., Schwartz D.C.,
RA Fetherston J.D., Lindler L.E., Brubaker R.R., Plano G.V.,
RA Straley S.C., McDonough K.A., Nilles M.L., Matson J.S., Blattner F.R.,
RA Perry R.D.;
RT "Genome sequence of Yersinia pestis KIM.";
RL J. Bacteriol. 184:4601-4611(2002).
DR EMBL: AJ414142; CAC89323.1; -: Genomic_DNA.
DR EMBL: AE013974; AAM87255.1; -: Genomic_DNA.
DR PIR: AH0057; AH0057.
DR GO: GO:0016020; C:membrane; IEA.
DR InterPro: IPR000791; Grp1_Fun34_Yaah.
DR Pfam: PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom: PD010188; Grp1_Fun34_Yaah; 1.
DR Complete proteome; Hypothetical protein.
SQ SEQUENCE 203 AA; 21661 MW; 20282B6691CD661 CRC64;

Query Match 62.2%; Score 46; DB 2; Length 203;
Best Local Similarity 57.1%; Pred. No. 6.9;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
|||:|||||
DB 15 MGFGMTTVLLNLHN 28

RESULT 15
Q66ET1_YERPS
ID Q66ET1_YERPS PRELIMINARY; PRT; 203 AA.
AC Q66ET1;
DT 25-OCT-2004 (T-EMBLrel. 28, Created)
DT 25-OCT-2004 (T-EMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (T-EMBLrel. 28, Last annotation update)
DE Putative regulator; integral membrane protein.
GN Name=Yaah; OrderedLocusNames=YPTB0610;
OS Yersinia pseudotuberculosis.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Yersinia.
OX NCBI_TaxID=633;
RN NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
[1]
RP STRAIN=IF32953 / Serotype 1;
RX PubMed=15358858; DOI=10.1073/pnas.0404012101;
RA Chain P.S.G., Carniel E., Larimer F.W., Lamerdin J., Stoutland P.O.,

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RA Regala W.M., Georgescu A.M., Vergez L.M., Land M.L., Motin V.L.,
RA Brubaker R.R., Fowler J., Hinnebusch J., Marceau M., Medigue C.,
RA Simonet M., Chenal-Francois V., Souza B., Dacheux D., Elliott J.M.,
RA Derbise A., Hauser L.J., Garcia E.;
RT "Insights into the evolution of Versinia pseudotuberculosis.";
RT comparison with Versinia pseudotuberculosis (2004).
RL Proc. Natl. Acad. Sci. U.S.A. 101:13826-13831(2004).
DR EMBL; EX936398; C:membrane; IEA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_YaaH.
DR Pfam; PF011184; Grp1_Fun34_YaaH; 1.
DR ProDom; PD010188; Grp1_Fun34_YaaH; 1.
KW Complete proteome.
SQ SEQUENCE 203 AA; 21644 MW; A21P2175B2ABCA0A CRC64;

Query Match 62.2%; Score 46; DB 2; Length 203;
Best Local Similarity 57.1%; Pred. No. 6.9;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
Db 15 MGFGMTTLLNLHN 28

RESULT 16
QSCQ75 CRYPV PRELIMINARY; PRT; 851 AA.
AC QSCQ75;
DT 10-MAY-2005 (TrEMBLrel. 30, Created)
DT 10-MAY-2005 (TrEMBLrel. 30, Last sequence update)
DT 10-MAY-2005 (TrEMBLrel. 30, Last annotation update)
DE YprA. Lhr1/Ski2 family RNA SP11 helicase (Fragment).
GN ORFNames=cgd5.3870;
OS Cryptosporidium parvum.
OC Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida;
OC Cryptosporidiidae; Cryptosporidium.
OC NCBI_TaxID=5807;
RN NUCLEOTIDE SEQUENCE.
RP STRAIN=Iowa type II;
RC PubMed=15044751; DOI=10.1126/science.1094786;
RA Abrahamson M.S., Templeton T.J., Enomoto S., Abrahamte J.E., Zhu G.,
RA Lanceto C.A., Deng M., Liu C., Widmer G., Tzipori S., Buck G.A., Xu P.,
RA Bankier A.T., Dear P.H., Konfortov B.A., Spriggs H.F., Iyer L.,
RA Anantharaman V., Aravind L., Kapur V.;
RT "Complete genome sequence of the apicomplexan, Cryptosporidium
RT parvum".
RL Science 304:441-445(2004).
DR EMBL; AAE0100010; EAK87599.1; -; Genomic_DNA.
DR GO; GO:0005524; F:ATP binding; IEA.
DR GO; GO:0008026; F:ATP-dependent helicase activity; IEA.
DR GO; GO:0016787; F:hydrolase activity; IEA.
DR GO; GO:0003676; F:nucleic acid binding; IEA.
DR InterPro; IPR01410; DEAD.
DR InterPro; IPR011545; DEAD/DEAH_N.
DR InterPro; IPR001650; Helicase_C.
DR Pfam; PF00270; DEAD; 1.
DR Pfam; PF00271; Helicase_C; 1.
DR SMART; SM00487; DEXDC; 1.
DR SMART; SM00490; HELIC; 1.
KW ATP-binding; Helicase; Hydrolase.
FT NON TER
SQ SEQUENCE 851 AA; 98508 MW; 1891BC62ADCF9D28 CRC64;

Query Match 62.2%; Score 46; DB 2; Length 851;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 MALKSKINLHN 14
Db 546 MALKKINLHN 555

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RESULT 17
Q72786 DESVH PRELIMINARY; PRT; 183 AA.
AC Q72786;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Grp1/Fun34/YaaH family protein.
GN OrderedLocNames=DVU2789;
OS Desulfovibrio vulgaris (strain Hildenborough / ATCC 29579 / NCIMB
OS 8303).
OC Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales;
OC Desulfovibrionaceae; Desulfovibrio.
OX NCBI_TaxID=882;
RN NUCLEOTIDE SEQUENCE.
RP PubMed=15077118; DOI=10.1038/nbt959;
RX Heidelberg J.F., Seshadri R., Haveman S.A., Hemme C.L., Paulsen I.T.,
RA Kolonay J.F., Eisen J.A., Ward N.L., Methe B.A., Brinkac L.M.,
RA Daugherty S.C., DeBoy R.T., Dodson R.J., Durkin A.S., Madupu R.,
RA Nelson W.C., Sullivan S.A., Fouts D.E., Haft D.H., Selengut J.,
RA Peterson J.D., Davidgen T.M., Zafar N., Zhou L., Radune D.,
RA Dimitrov G., Hance M., Tran K., Khouri H.M., Gill J., Utterback T.R.,
RA Feldblyum T.V., Wall J.D., Voordouw G., Fraser C.M.;
RT "The genome sequence of the anaerobic, sulfate-reducing bacterium
RT Desulfovibrio vulgaris Hildenborough.";
RL Nat. Biotechnol. 22:554-559(2004).
DR EMBL; AE017318; AAS97261.1; -; Genomic_DNA.
DR TIGR; DVU2789; -;
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_YaaH.
DR Pfam; PF011184; Grp1_Fun34_YaaH; 1.
DR ProDom; PD010188; Grp1_Fun34_YaaH; 1.
DR PROSITE; PS01114; GPRI_FUN34_YAAH; 1.
KW Complete proteome.
SQ SEQUENCE 183 AA; 20134 MW; 82A9BDCDD18C4AA6 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 183;
Best Local Similarity 50.0%; Pred. No. 14;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
Db 14 MGFGMTTLLNLHN 27

RESULT 18
Q6AK78 DESPS PRELIMINARY; PRT; 185 AA.
AC Q6AK78;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Conserved hypothetical membrane protein.
GN OrderedLocNames=DP2519;
OS Desulfotalea psychrophila.
OC Bacteria; Proteobacteria; Deltaproteobacteria; Desulfobacterales;
OC Desulfobulbaceae; Desulfotalea.
OX NCBI_TaxID=84980;
RN NUCLEOTIDE SEQUENCE.
RP STRAIN=LSV54 / DSM 12343;
RX PubMed=15305914; DOI=10.1111/j.1462-2920.2004.00665.x;
RA Rabus R., Ruepp A., Frickey T., Rattel T., Fartmann B., Stark M.,
RA Bauer M., Zibat A., Lombardot T., Becker I., Amann J., Gellner K.,
RA Teeling H., Leuschner W.D., Gloeckner F.-O., Lupas A.N., Amann R.,
RA Klenk H.-P.;
RT "The genome of Desulfotalea psychrophila, a sulfate-reducing bacterium
RT from permanently cold Arctic sediments.";
RL Environ. Microbiol. 6:887-902(2004).
DR EMBL; CR522870; CAG37248.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_YaaH.

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RT distinct from that of V. cholerae.";
RL Lancet 361:743-749(2003).
DR EMBL; BA000031; BAC58883.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; GPRI_FUN34_YAAH; 1.
KW Complete proteome; Hypothetical protein.
SQ SEQUENCE 196 AA; 20930 MW; 8FECFC8E367DDA11 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 196;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
DB 14 MGFGMTTILLIHN 27

RESULT 22
Q6LPH7_PROPR PRELIMINARY; PRT; 197 AA.
AC Q6LPH7;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Putative membrane protein.
GN Name=STY0009; OrderedLocusNames=PBPA2415;
OS Photobacterium profundum (Photobacterium sp. (strain SS9)).
OC Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;
OC Vibrionaceae; Photobacterium.
OX NCBI_TaxID=74109;
RN [1]
NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RP PubMed=15746425; DOI=10.1126/science.1103341;
RA Vezzi A., Campanaro S., D'Angelo M., Simonato F., Vitulo N.,
RA Lauro F.M., Cestaro A., Malacrida G., Simionati B., Cannata N.,
RA Romualdi C., Bartlett D.H., Valle G.;
RT "Life at depth: Photobacterium profundum genome sequence and
RT expression analysis.";
RL Science 307:1459-1461(2005).
DR EMBL; CH378671; CAG20799.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; GPRI_FUN34_YAAH; 1.
KW Complete proteome.
SQ SEQUENCE 197 AA; 21133 MW; 688D1251A006AFF8 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 197;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
DB 14 MGFGMTTILLIHN 27

RESULT 23
Q8DF09_VIBVU PRELIMINARY; PRT; 197 AA.
AC Q8DF09;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Predicted membrane protein.
GN OrderedLocusNames=VV10416;
OS Vibrio vulnificus.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;
OC Vibrionaceae; Vibrio.
OX NCBI_TaxID=672;

[1]
RN NUCLEOTIDE SEQUENCE.
RC STRAIN=CMCP6;
RA Rhee J.H., Kim S.Y., Chung S.S., Kim J.J., Moon Y.H., Jeong H.,
RA Choy H.E.;
RT "Complete genome sequence of Vibrio vulnificus CMCP6.";
RL Submitted (DEC-2002) to the EMBL/GenBank/DBSJ databases.
DR EMBL; AE016798; AAO08939.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; GPRI_FUN34_YAAH; 1.
KW Complete proteome.
SQ SEQUENCE 197 AA; 21066 MW; E1781C8FF21B08B9 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 197;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
DB 14 MGFGMTTILLIHN 27

RESULT 24
Q9KTW0_VIBCH PRELIMINARY; PRT; 197 AA.
AC Q9KTW0;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Hypothetical protein VC0770.
GN OrderedLocusNames=VC0770;
OS Vibrio cholerae.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;
OC Vibrionaceae; Vibrio.
OX NCBI_TaxID=666;
RN [1]
NUCLEOTIDE SEQUENCE.
RC STRAIN=El Tor N16961 / Serotype O1;
RX MEDLINE=20406833; PubMed=10952301; DOI=10.1038/35020000;
RA Heidelberg J.F., Eisen J.A., Nelson W.C., Clayton R.A., Gwinn M.L.,
RA Dodson R.J., Haft D.H., Hickey E.K., Peterson J.D., Umayam L.A.,
RA Gill S.R., Nelson K.E., Read T.D., Tetelin H., Richardson D.L.,
RA Ermolaeva M.D., Vamathevan J.J., Bass S., Qin H., Dragoi I.,
RA Sellers P., McDonald L.A., Utterback T.R., Fleischmann R.D.,
RA Nierman W.C., White O., Salzberg S.L., Smith H.O., Colwell R.R.,
RA Mekalanos J.J., Venter J.C., Fraser C.M.;
RT "DNA sequence of both chromosomes of the cholera pathogen Vibrio
RT cholerae.";
RL Nature 406:477-483(2000).
DR EMBL; AE004162; AAF93935.1; -; Genomic_DNA.
DR FIR; F82282; F82282.
DR TIGR; VC0770; -.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; GPRI_FUN34_YAAH; 1.
KW Complete proteome; Hypothetical protein.
SQ SEQUENCE 197 AA; 21120 MW; 5CD361817EB954E1 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 197;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
DB 14 MGFGMTTILLIHN 27

RESULT 25
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Q7MND9_VIBVY
ID Q7MND9_VIBVY PRELIMINARY; PRT; 197 AA.
AC
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Predicted membrane protein.
GN OrderedLocusNames=V00779;
OS Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;
OC Vibrionaceae; Vibrio.
OX NCBI_TaxID=196600;
RN
[1]
RP NUCLEOTIDE SEQUENCE.
RX PubMed=14656965; DOI=10.1101/gr.1295503;
RA Chen C.-Y., Wu K.-M., Chang Y.-C., Chang C.-H., Tsai H.-C.,
RA Liao T.-L., Liu Y.-M., Chen H.-J., Shen A.B.-T., Li J.-C., Su T.-L.,
RA Shao C.-P., Lee C.-T., Hor L.-I., Tsai S.-F.;
RT "Comparative genome analysis of Vibrio vulnificus, a marine
RT pathogen."
RL Genome Res. 13:2577-2587(2003).
DR EMBL: BA000037; BAC93542.1; -; Genomic_DNA.
DR GO: GO:0016020; C:membrane; IEA.
DR InterPro: IPR000791; Grp1_Fun34_Yaah.
DR Pfam: PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom: PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE: PS01114; GPRL_FUN34_YAAH; 1.
DR Complete proteome.
SQ SEQUENCE 197 AA; 21066 MW; E1781C8FF21B08B9 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 197;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
Db |||:|:|:|
14 MGFGMTTILLNIHN 27

RESULT 26
ID Q8PYF9_METWA PRELIMINARY; PRT; 200 AA.
AC
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Transcriptional regulator.
GN OrderedLocusNames=MM0903;
OS Methanosarcina mazei (Methanosarcina frisia).
OC Archaea; Euryarchaeota; Methanomicrobia; Methanosarcinales;
OX NCBI_TaxID=2209;
RN
[1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=Goel / Go1 / ATCC BAA-199 / DSM 3647 / OCM 88;
RX MEDLINE=22120827; PubMed=12125824;
RA Deppenmeier U., Johann A., Hartsch T., Merkl R., Schmitz R.A.,
RA Martinez-Arias R., Henne A., Wieser A., Baeumer S., Jacobi C.,
RA Brueggemann H., Lienard T., Christmann A., Boemcke M., Steckel S.,
RA Bhattacharyya A., Lykidis A., Overbeek R., Klenk H.-P., Gunsalus R.P.,
RA Fritz H.-J., Gottschalk G.;
RT "The genome of Methanosarcina mazei: evidence for lateral gene
RT transfer between Bacteria and Archaea."
RL J. Mol. Microbiol. Biotechnol. 4:453-461(2002).
DR EMBL: AE013316; BAM30599.1; -; Genomic_DNA.
DR GO: GO:0016020; C:membrane; IEA.
DR InterPro: IPR000791; Grp1_Fun34_Yaah.
DR Pfam: PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom: PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE: PS01114; GPRL_FUN34_YAAH; 1.
DR Complete proteome.
SQ SEQUENCE 200 AA; 21621 MW; 6F8AB042D9B70FF0 CRC64;

Q7MND9_VIBVY PRELIMINARY; PRT; 197 AA.
AC
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Predicted membrane protein.
GN OrderedLocusNames=V00779;
OS Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;
OC Vibrionaceae; Vibrio.
OX NCBI_TaxID=196600;
RN
[1]
RP NUCLEOTIDE SEQUENCE.
RX PubMed=14656965; DOI=10.1101/gr.1295503;
RA Chen C.-Y., Wu K.-M., Chang Y.-C., Chang C.-H., Tsai H.-C.,
RA Liao T.-L., Liu Y.-M., Chen H.-J., Shen A.B.-T., Li J.-C., Su T.-L.,
RA Shao C.-P., Lee C.-T., Hor L.-I., Tsai S.-F.;
RT "Comparative genome analysis of Vibrio vulnificus, a marine
RT pathogen."
RL Genome Res. 13:2577-2587(2003).
DR EMBL: BA000037; BAC93542.1; -; Genomic_DNA.
DR GO: GO:0016020; C:membrane; IEA.
DR InterPro: IPR000791; Grp1_Fun34_Yaah.
DR Pfam: PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom: PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE: PS01114; GPRL_FUN34_YAAH; 1.
DR Complete proteome.
SQ SEQUENCE 197 AA; 21066 MW; E1781C8FF21B08B9 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 197;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
Db |||:|:|:|
14 MGFGMTTILLNIHN 27

RESULT 26
ID Q8PYF9_METWA PRELIMINARY; PRT; 200 AA.
AC
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Transcriptional regulator.
GN OrderedLocusNames=MM0903;
OS Methanosarcina mazei (Methanosarcina frisia).
OC Archaea; Euryarchaeota; Methanomicrobia; Methanosarcinales;
OX NCBI_TaxID=2209;
RN
[1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=Goel / Go1 / ATCC BAA-199 / DSM 3647 / OCM 88;
RX MEDLINE=22120827; PubMed=12125824;
RA Deppenmeier U., Johann A., Hartsch T., Merkl R., Schmitz R.A.,
RA Martinez-Arias R., Henne A., Wieser A., Baeumer S., Jacobi C.,
RA Brueggemann H., Lienard T., Christmann A., Boemcke M., Steckel S.,
RA Bhattacharyya A., Lykidis A., Overbeek R., Klenk H.-P., Gunsalus R.P.,
RA Fritz H.-J., Gottschalk G.;
RT "The genome of Methanosarcina mazei: evidence for lateral gene
RT transfer between Bacteria and Archaea."
RL J. Mol. Microbiol. Biotechnol. 4:453-461(2002).
DR EMBL: AE013316; BAM30599.1; -; Genomic_DNA.
DR GO: GO:0016020; C:membrane; IEA.
DR InterPro: IPR000791; Grp1_Fun34_Yaah.
DR Pfam: PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom: PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE: PS01114; GPRL_FUN34_YAAH; 1.
DR Complete proteome.
SQ SEQUENCE 200 AA; 21621 MW; 6F8AB042D9B70FF0 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 200;
Best Local Similarity 50.0%; Pred. No. 16;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
Db |||:|:|:|
29 MGFGMTTILLNIHN 42

RESULT 27
ID Q8TIV1_METAC PRELIMINARY; PRT; 201 AA.
AC
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Fun34 related protein.
GN OrderedLocusNames=MA4008;
OS Methanosarcina acetivorans.
OC Archaea; Euryarchaeota; Methanomicrobia; Methanosarcinales;
OX Methanosarcinaceae; Methanosarcina.
OX NCBI_TaxID=2214;
RN
[1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=C2A / ATCC 35395 / DSM 2834;
RX MEDLINE=21929760; PubMed=1192238; DOI=10.1101/gr.223902;
RA Galegan J.E., Nusbbaum C., Roy A., Endrizzi M.G., Macdonald P.,
RA Fitzhugh W., Calvo S., Engels R., Smirnov S., Atnoor D., Brown A.,
RA Allen N., Naylor J., Stange-Thomann N., DeArellano K., Johnson R.,
RA Linton L., McEwan P., McKernan K., Ialamas J., Firrelli A., Ye W.,
RA Hedderich R., Ingram-Smith C., Kuettnner H.C., Krzycki J.A.,
RA Leigh J.A., Li W., Liu J., Mukhopadhyay B., Reeve J.N., Smith K.,
RA Springer T.A., Unayam L.A., White O., White R.H., de Macario E.C.,
RA Ferry J.G., Jarrell K.F., Jing H., Macario A.J.L., Paulsen I.T.,
RA Pritchett M., Sowers K.R., Swanson R.V., Zinder S.H., Lander E.,
RA Metcalf W.W., Birren B.;
RT "The genome of Methanosarcina acetivorans reveals extensive metabolic
RT and physiological diversity."
RL Genome Res. 12:532-542(2002).
DR EMBL: AE011113; AAM07358.1; -; Genomic_DNA.
DR GO: GO:0016020; C:membrane; IEA.
DR InterPro: IPR000791; Grp1_Fun34_Yaah.
DR Pfam: PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom: PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE: PS01114; GPRL_FUN34_YAAH; 1.
DR Complete proteome.
SQ SEQUENCE 201 AA; 21734 MW; BF6013C034C0DAFE CRC64;

Query Match 59.5%; Score 44; DB 2; Length 201;
Best Local Similarity 50.0%; Pred. No. 16;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
Db |||:|:|:|
29 MGFGMTTILLNIHN 42

RESULT 28
ID Q4UYJ0_XANCP PRELIMINARY; PRT; 343 AA.
AC
DT 13-SEP-2005 (TrEMBLrel. 31, Created)
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DE Transcriptional regulator.
GN OSFNames=XC 0808;
OS Xanthomonas campestris pv. campestris str. 8004.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales;
OX Xanthomonadaceae; Xanthomonas.
OX NCBI_TaxID=314565;
RN
[1]
RP NUCLEOTIDE SEQUENCE.

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RC STRAIN=8004;
RA Qian W., Jia Y.-T., Ren S.-X., He Y.-Q., Peng J.-X., Lu L.-F.,
RA Sun Q.-H., Ying G., Tang D.-J., Wu W., Wang L.-F., Jiang B.-L.,
RA Zeng S.-Y., Gu W.-Y., Lu G., Rong L., Tian Y.-C., Yao Z.-J., Fu G.,
RA Chen B.-S., Fang R.-X., Qiang B.-Q., Chen Z., Zhao G.-P., Tang J.-L.,
RA He C.-Z.;
RL Submitted (FEB-2005) to the EMBL/GenBank/DBJ databases.
DR EMBL; CP000050; AAY47883.1; -; Genomic DNA.
SQ SEQUENCE 343 AA; 36846 MW; A30A81FB7DC8C057 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 343;
Best Local Similarity 66.7%; Pred. No. 27;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 GYGMAKSKINLH 13
DB 108 GYSMLLSKLNHR 119
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||| |||:|

RESULT 29
QBP515 XANCP
ID QBP515 XANCP PRELIMINARY; PRT; 343 AA.
AC QBP515;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Transcriptional regulator.
GN Name=cebr;
OS Xanthomonas campestris (pv. campestris).
OC Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales;
OC Xanthomonadaceae; Xanthomonas.
OX NCBI_TaxID=340;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=ATCC 33913 / NCPPB 528;
RX MEDLINE=2022145; PubMed=12024217; DOI=10.1038/417459a;
RA da Silva A.C.R., Ferro J.A., Reinach F.C., Farah C.S., Furlan L.R.,
RA Quaggio R.B., Monteiro-Vitorello C.B., Van Sluys M.A.,
RA Almeida L.F. Jr., Alves L.M.C., do Amaral A.M., Bertolini M.C.,
RA Camargo L.E.A., Camarotte G., Cannavan F., Cardozo J., Chamergo F.,
RA Ciapina L.P., Cicarelli R.M.B., Coutinho L.L., Cursino-Santos J.R.,
RA El-Dorri H., Faria J.B., Ferreira A.J.S., Ferreira R.C.C.,
RA Ferro M.I.T., Formighieri E.P., Franco M.C., Greggio C.C., Gruber A.,
RA Katsuyama A.M., Kishi L.T., Leite R.P., Lemos E.G.M., Lemos M.V.F.,
RA Locali E.C., Machado M.A., Madeira A.M.B.N., Martinez-Rossi N.M.,
RA Martins E.C., Meidanis J., Menck C.F.M., Miyaki C.Y., Moon D.H.,
RA Moreira L.M., Novo M.T.M., Okura V.K., Oliveira M.C., Oliveira V.R.,
RA Pereira H.A., Rossi A., Sena J.A.D., Silva C., de Souza R.F.,
RA Spindola L.A.F., Takita M.A., Tamura R.E., Teixeira E.C., Tezza R.I.D.,
RA Trindade dos Santos M., Truffi D., Tsai S.M., White F.F.,
RA Setubal J.C., Kitajima J.P.;
RT "Comparison of the genomes of two Xanthomonas pathogens with differing
RT host specificities.";
RL Nature 417:459-463(2002).
DR EMBL; AE012454; AM42626.1; -; Genomic DNA.
DR HSSP; P03023; 1CJG.
DR GO; GO:0005622; C:intracellular; IEA.
DR GO; GO:0003700; F:transcription factor activity; IEA.
DR GO; GO:0006355; F:regulation of transcription, DNA-dependent; IEA.
DR InterPro; IPR000843; HTH_Laci.
DR InterPro; IPR001761; PeriplabP/Laci.
DR Pfam; PF00356; Laci; 1.
DR Pfam; PF00532; Peripla BP 1; 1.
DR SMART; SM00354; HTH_LACI; 1.
DR PROSITE; PS00356; HTH_LACI_1; 1.
DR PROSITE; PS00932; HTH_LACI_2; 1.
KW Complete proteome.
SQ SEQUENCE 343 AA; 36846 MW; A30A81FB7DC8C057 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 343;
Best Local Similarity 66.7%; Pred. No. 27;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 GYGMAKSKINLH 13
DB 108 GYSMLLSKLNHR 119
||| |||:|
||| |||:|

RESULT 29
QBP515 XANCP
ID QBP515 XANCP PRELIMINARY; PRT; 343 AA.
AC QBP515;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Transcriptional regulator.
GN Name=cebr;
OS Xanthomonas campestris (pv. campestris).
OC Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales;
OC Xanthomonadaceae; Xanthomonas.
OX NCBI_TaxID=340;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=ATCC 33913 / NCPPB 528;
RX MEDLINE=2022145; PubMed=12024217; DOI=10.1038/417459a;
RA da Silva A.C.R., Ferro J.A., Reinach F.C., Farah C.S., Furlan L.R.,
RA Quaggio R.B., Monteiro-Vitorello C.B., Van Sluys M.A.,
RA Almeida L.F. Jr., Alves L.M.C., do Amaral A.M., Bertolini M.C.,
RA Camargo L.E.A., Camarotte G., Cannavan F., Cardozo J., Chamergo F.,
RA Ciapina L.P., Cicarelli R.M.B., Coutinho L.L., Cursino-Santos J.R.,
RA El-Dorri H., Faria J.B., Ferreira A.J.S., Ferreira R.C.C.,
RA Ferro M.I.T., Formighieri E.P., Franco M.C., Greggio C.C., Gruber A.,
RA Katsuyama A.M., Kishi L.T., Leite R.P., Lemos E.G.M., Lemos M.V.F.,
RA Locali E.C., Machado M.A., Madeira A.M.B.N., Martinez-Rossi N.M.,
RA Martins E.C., Meidanis J., Menck C.F.M., Miyaki C.Y., Moon D.H.,
RA Moreira L.M., Novo M.T.M., Okura V.K., Oliveira M.C., Oliveira V.R.,
RA Pereira H.A., Rossi A., Sena J.A.D., Silva C., de Souza R.F.,
RA Spindola L.A.F., Takita M.A., Tamura R.E., Teixeira E.C., Tezza R.I.D.,
RA Trindade dos Santos M., Truffi D., Tsai S.M., White F.F.,
RA Setubal J.C., Kitajima J.P.;
RT "Comparison of the genomes of two Xanthomonas pathogens with differing
RT host specificities.";
RL Nature 417:459-463(2002).
DR EMBL; AE012454; AM42626.1; -; Genomic DNA.
DR HSSP; P03023; 1CJG.
DR GO; GO:0005622; C:intracellular; IEA.
DR GO; GO:0003700; F:transcription factor activity; IEA.
DR GO; GO:0006355; F:regulation of transcription, DNA-dependent; IEA.
DR InterPro; IPR000843; HTH_Laci.
DR InterPro; IPR001761; PeriplabP/Laci.
DR Pfam; PF00356; Laci; 1.
DR Pfam; PF00532; Peripla BP 1; 1.
DR SMART; SM00354; HTH_LACI; 1.
DR PROSITE; PS00356; HTH_LACI_1; 1.
DR PROSITE; PS00932; HTH_LACI_2; 1.
KW Complete proteome.
SQ SEQUENCE 343 AA; 36846 MW; A30A81FB7DC8C057 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 343;
Best Local Similarity 66.7%; Pred. No. 27;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 GYGMAKSKINLH 13
DB 108 GYSMLLSKLNHR 119
||| |||:|
||| |||:|

RESULT 29
QBP515 XANCP
ID QBP515 XANCP PRELIMINARY; PRT; 343 AA.
AC QBP515;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Transcriptional regulator.
GN Name=cebr;
OS Xanthomonas campestris (pv. campestris).
OC Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales;
OC Xanthomonadaceae; Xanthomonas.
OX NCBI_TaxID=340;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=ATCC 33913 / NCPPB 528;
RX MEDLINE=2022145; PubMed=12024217; DOI=10.1038/417459a;
RA da Silva A.C.R., Ferro J.A., Reinach F.C., Farah C.S., Furlan L.R.,
RA Quaggio R.B., Monteiro-Vitorello C.B., Van Sluys M.A.,
RA Almeida L.F. Jr., Alves L.M.C., do Amaral A.M., Bertolini M.C.,
RA Camargo L.E.A., Camarotte G., Cannavan F., Cardozo J., Chamergo F.,
RA Ciapina L.P., Cicarelli R.M.B., Coutinho L.L., Cursino-Santos J.R.,
RA El-Dorri H., Faria J.B., Ferreira A.J.S., Ferreira R.C.C.,
RA Ferro M.I.T., Formighieri E.P., Franco M.C., Greggio C.C., Gruber A.,
RA Katsuyama A.M., Kishi L.T., Leite R.P., Lemos E.G.M., Lemos M.V.F.,
RA Locali E.C., Machado M.A., Madeira A.M.B.N., Martinez-Rossi N.M.,
RA Martins E.C., Meidanis J., Menck C.F.M., Miyaki C.Y., Moon D.H.,
RA Moreira L.M., Novo M.T.M., Okura V.K., Oliveira M.C., Oliveira V.R.,
RA Pereira H.A., Rossi A., Sena J.A.D., Silva C., de Souza R.F.,
RA Spindola L.A.F., Takita M.A., Tamura R.E., Teixeira E.C., Tezza R.I.D.,
RA Trindade dos Santos M., Truffi D., Tsai S.M., White F.F.,
RA Setubal J.C., Kitajima J.P.;
RT "Comparison of the genomes of two Xanthomonas pathogens with differing
RT host specificities.";
RL Nature 417:459-463(2002).
DR EMBL; AE012454; AM42626.1; -; Genomic DNA.
DR HSSP; P03023; 1CJG.
DR GO; GO:0005622; C:intracellular; IEA.
DR GO; GO:0003700; F:transcription factor activity; IEA.
DR GO; GO:0006355; F:regulation of transcription, DNA-dependent; IEA.
DR InterPro; IPR000843; HTH_Laci.
DR InterPro; IPR001761; PeriplabP/Laci.
DR Pfam; PF00356; Laci; 1.
DR Pfam; PF00532; Peripla BP 1; 1.
DR SMART; SM00354; HTH_LACI; 1.
DR PROSITE; PS00356; HTH_LACI_1; 1.
DR PROSITE; PS00932; HTH_LACI_2; 1.
KW Complete proteome.
SQ SEQUENCE 343 AA; 36846 MW; A30A81FB7DC8C057 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 343;
Best Local Similarity 66.7%; Pred. No. 28;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 GYGMAKSKINLH 13
DB 321 GYGSALAKINIH 332
||| |||:|
||| |||:|

RESULT 31
Q4H6L8_9DEIO
ID Q4H6L8_9DEIO PRELIMINARY; PRT; 501 AA.
AC Q4H6L8;
DT 13-SEP-2005 (TrEMBLrel. 31, Created)
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DE Similar to metal-dependent hydrolase with the TIM-barrel fold.
GN ORFNames=DgeODRAFT_0101;
OS Deinococcus geothermalis DSM 11300.
OC Bacteria; Deinococcus-Thermus; Deinococci; Deinococcales;
OC Deinococcaceae; Deinococcus.
OX NCBI_TaxID=31795;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=DSM 11300;
RG US DOE Joint Genome Institute (JGI-PGF);
RA Copeland A., Lucas S., Lapidus A., Barry K., Dettler C., Glavina T.,
RA Hammon N., Israni S., Pitluck S., Richardson P.;
RT "Sequencing of the draft genome assembly of Deinococcus geothermalis
RT DSM 11300.";
RL Submitted (MAY-2005) to the EMBL/GenBank/DBJ databases.
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=DSM 11300;
RG US DOE Joint Genome Institute (JGI-ORNL);
RA Larimer F., Land M.;
RT "Annotation of the draft genome assembly of Deinococcus geothermalis
RT DSM 11300.";
RL Submitted (JUN-2005) to the EMBL/GenBank/DBJ databases.
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
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QY 2 GYGMAKSKINLH 13
DB 108 GYSMLLSKLNHR 119
||| |||:|
||| |||:|

RESULT 30
Q6MST2 MYCMS
ID Q6MST2 MYCMS PRELIMINARY; PRT; 362 AA.
AC Q6MST2;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Probable nicotinic phosphoribosyltransferase (EC 2.4.2.11).
GN Name=pncB; OrderedLocNames=MSC_0687;
OS Mycoplasma mycoides (subsp. mycoides SC).
OC Bacteria; Firmicutes; Mollicutes; Mycoplasmatataceae; Mycoplasma.
OX NCBI_TaxID=44101;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=PGL;
RX PubMed=14762060; DOI=10.1101/gr.1673304;
RA Westberg J., Persson A., Holmberg A., Goessmann A., Lundeberg J.,
RA Johansson K.-E., Pettersson B., Uhlen M.;
RT "The genome sequence of Mycoplasma mycoides subsp. mycoides SC type
RT strain PGLT, the causative agent of contagious bovine pleuropneumonia
RT (CBPP) ";
RL Genome Res. 14:221-227(2004).
DR EMBL; BX842644; CAE77306.1; -; Genomic DNA.
DR GO; GO:0004516; F:nicotinate phosphoribosyltransferase activity; IEA.
KW Complete proteome.
SQ SEQUENCE 362 AA; 41160 MW; 8121BF091281DFB9 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 362;
Best Local Similarity 66.7%; Pred. No. 28;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 GYGMAKSKINLH 13
DB 321 GYGSALAKINIH 332
||| |||:|
||| |||:|

RESULT 31
Q4H6L8_9DEIO
ID Q4H6L8_9DEIO PRELIMINARY; PRT; 501 AA.
AC Q4H6L8;
DT 13-SEP-2005 (TrEMBLrel. 31, Created)
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DE Similar to metal-dependent hydrolase with the TIM-barrel fold.
GN ORFNames=DgeODRAFT_0101;
OS Deinococcus geothermalis DSM 11300.
OC Bacteria; Deinococcus-Thermus; Deinococci; Deinococcales;
OC Deinococcaceae; Deinococcus.
OX NCBI_TaxID=31795;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=DSM 11300;
RG US DOE Joint Genome Institute (JGI-PGF);
RA Copeland A., Lucas S., Lapidus A., Barry K., Dettler C., Glavina T.,
RA Hammon N., Israni S., Pitluck S., Richardson P.;
RT "Sequencing of the draft genome assembly of Deinococcus geothermalis
RT DSM 11300.";
RL Submitted (MAY-2005) to the EMBL/GenBank/DBJ databases.
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=DSM 11300;
RG US DOE Joint Genome Institute (JGI-ORNL);
RA Larimer F., Land M.;
RT "Annotation of the draft genome assembly of Deinococcus geothermalis
RT DSM 11300.";
RL Submitted (JUN-2005) to the EMBL/GenBank/DBJ databases.
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
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CC      preliminary data.
DR      EMBL; AAHE01000013; BAU81904.1; -; Genomic_DNA.
KW      Hydrolase.
SQ      SEQUENCE 501 AA; 53099 MW; 13CFBB50B9CC64AB CRC64;

Query Match      59.5%; Score 44; DB 2; Length 501;
Best Local Similarity 53.8%; Pred. No. 39;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      1 MGYGMAISKINLH 13
DB      72 VAYGFSLSQLNLH 84

RESULT 32
Q4RVL2_TETNG
ID      Q4RVL2_TETNG PRELIMINARY; PRT; 694 AA.
AC      Q4RVL2_TETNG PRELIMINARY; PRT; 694 AA.
DT      13-SEP-2005 (TRENBLrel. 31, Created)
DT      13-SEP-2005 (TRENBLrel. 31, Last sequence update)
DT      13-SEP-2005 (TRENBLrel. 31, Last annotation update)
DE      Chromosome 3 SCAFI4975, whole genome shotgun sequence.
DE      (fragment).
GN      ORFNames=GSTENG0026906001;
OS      Tetraodon nigroviridis (Green puffer).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC      Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
OC      Tetraodontidae; Tetraodontidae; Tetraodon.
OX      NCBI_TaxID=99883;
RN      [1]
RP      NUCLEOTIDE SEQUENCE.
RA      Jaillon O., Aury J.M., Brunet P., Petit J.L., Stange-Thomann N.,
RA      Mauceli E., Bouneau L., Fischer C., Ozouf-Costaz C., Bernot A.,
RA      Nicaud S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,
RA      Daellva C., Salanoubat M., Levy M., Boudet N., Castellano S.,
RA      Anthonard V., Jubin C., Castellani V., Katinka M., Vacherie B.,
RA      Biemont C., Skalli Z., Cattolico L., Poulain J., De Berardinis V.,
RA      Cruaud C., Duprat S., Brottier P., Coutanceau J.P., Gouzy J.,
RA      Parra G., Lardier G., Chappie C., McKernan K.J., McEwan P., Bosak S.,
RA      Kellis M., Volff J.N., Guigo R., Zody M.C., Mesirov J.,
RA      Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,
RA      Laudet V., Schachter V., Quetier F., Saurin W., Scarpelli C.,
RA      Winkler P., Lander E.S., Weissbach J., Roest Crolius H.;
RT      "Genome duplication in the teleost fish Tetraodon nigroviridis reveals
RT      the early vertebrate proto-karyotype.";
RL      Nature 431:946-957(2004).
RN      [2]
RP      NUCLEOTIDE SEQUENCE.
RA      Genoscope; Whitehead Institute Centre for Genome Research;
RA      Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.
CC      -!- CAUTION: The sequence shown here is derived from an
CC      EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC      preliminary data.
DR      EMBL; CAAE01014975; CAG06520.1; -; Genomic_DNA.
FT      NON_TER 1 694
FT      NON_TER 694 694
SQ      SEQUENCE 694 AA; 77492 MW; FDBB74F7D7F17FE7 CRC64;

Query Match      59.5%; Score 44; DB 2; Length 694;
Best Local Similarity 72.7%; Pred. No. 54;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      4 GMALSKINLHN 14
DB      496 GISLSKISLHN 506

RESULT 33
Q899T2_CLOTE
ID      Q899T2_CLOTE PRELIMINARY; PRT; 887 AA.
AC      Q899T2_CLOTE PRELIMINARY; PRT; 887 AA.
DT      01-JUN-2003 (TRENBLrel. 24, Created)

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DT      01-JUN-2003 (TRENBLrel. 24, Last sequence update)
DT      01-OCT-2003 (TRENBLrel. 25, Last annotation update)
DE      Conserved membrane protein.
GN      OrderedLocusNames=CTC000086;
OS      Clostridium tetani.
OC      Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae;
OC      Clostridium.
OX      NCBI_TaxID=1513;
RN      [1]
RP      NUCLEOTIDE SEQUENCE.
RC      STRAIN=Massachusetts / E88;
RX      MEDLINE=22457253; PubMed=12552129; DOI=10.1073/pnas.0335853100;
RA      Brueggemann H., Baeumer S., Fricke W.F., Wierze A., Liesegang H.,
RA      Decker I., Herzberg C., Martinez-Arias R., Merkl R., Henne A.,
RA      Gottschalk G.;
RT      "The genome sequence of Clostridium tetani, the causative agent of
RT      tetanus disease.";
RL      Proc. Natl. Acad. Sci. U.S.A. 100:1316-1321(2003).
DR      EMBL; AE015936; AAO34739.1; -; Genomic DNA.
DR      GO; GO:0016021; C:integral to membrane; IEA.
DR      InterPro; IPR005372; UPF0182.
DR      Pfam; PF03699; UPF0182; 1.
SQ      COMPLETE PROTEOME.
RW      SEQUENCE 887 AA; 103741 MW; A92998D2EA3CB7D7 CRC64;

Query Match      59.5%; Score 44; DB 2; Length 887;
Best Local Similarity 70.0%; Pred. No. 68;
Matches 7; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      2 GYGMAISKIN 11
DB      417 GYGVAMSKVN 426

RESULT 34
RS24_AERPE
ID      RS24_AERPE STANDARD; PRT; 102 AA.
AC      QSYCY0;
DT      30-MAY-2000 (Rel. 39, Created)
DT      30-MAY-2000 (Rel. 39, Last sequence update)
DT      10-MAY-2005 (Rel. 47, Last annotation update)
DE      30S ribosomal protein S24e.
GN      Name=rs24e; OrderedLocusNames=APE1132;
OS      Aeropyrum pernix.
OC      Archaea; Crenarchaeota; Thermoprotei; Desulfurococcales;
OC      Desulfurococaceae; Aeropyrum.
OX      NCBI_TaxID=56636;
RN      [1]
RP      NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC      STRAIN=K1;
RX      MEDLINE=99310339; PubMed=10382966;
RA      Kawarabayashi Y., Hino Y., Horikawa H., Yamazaki S., Haikawa Y.,
RA      Jin-no K., Takahashi M., Sekine M., Baba S.-I., Ankai A., Kosugi H.,
RA      Hosoyama A., Fukui S., Nagai Y., Nishijima K., Nakazawa H.,
RA      Takamiya M., Masuda S., Funahashi T., Tanaka T., Kudo H. Y.,
RA      Yamazaki J., Kishida N., Oguchi A., Aoki K.-I., Kubota K.,
RA      Nakamura Y., Nomura N., Sako Y., Kikuchi H.;
RT      "Complete genome sequence of an aerobic hyper-thermophilic
RT      crenarchaeon, Aeropyrum pernix K1.";
RL      DNA Res. 6:83-101(1999).
CC      -!- SIMILARITY: Belongs to the ribosomal protein S24e family.
CC      This Swiss-Prot entry is copyright. It is produced through a collaboration
CC      between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC      the European Bioinformatics Institute. There are no restrictions on its
CC      use as long as its content is in no way modified and this statement is not
CC      removed.
CC      -----
DR      EMBL; BA000002; BAA80117.1; ALT_INIT; Genomic_DNA.
DR      HAMAP; MF_00545; -; 1.
DR      InterPro; IPR001976; Ribosomal_S24E.
DR      PANTHER; PTHR10496; Ribosomal_S24E; 1.
DR      Pfam; PF01282; Ribosomal_S24e; 1.

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DR ProDom: PD006052; Ribosomal_S24E; 1.
 DR PROSITE: PS00529; RIBOSOMAL_S24E; 1.
 KW Complete proteome; Ribonucleoprotein; Ribosomal protein.
 SQ SEQUENCE 102 AA; 11858 MW; DEAA205AAFEED8066 CRC64;

Query Match 58.1%; Score 43; DB 1; Length 102;
 Best Local Similarity 58.3%; Pred. No. 12;
 Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 GYGMAISKINLH 13
 ||| ||| :
 Db 60 GYGAGLSKVRVH 71

RESULT 35
 Q4NOB2_9DELTA PRELIMINARY; PRT; 214 AA.
 AC Q4NOB2;
 DT 13-SEP-2005 (TrEMBLrel. 31, Created)
 DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
 DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
 DE GPR1/FUN34/yaah.
 GN ORFNames=AdelDRAFT 0850;
 OS Anaeromyxobacter dehalogenans 2CP-C.
 OC Bacteria; Proteobacteria; Deltaproteobacteria; Myxococcales;
 OC Cytophactereinae; Myxococcaceae; Anaeromyxobacter.
 OX NCBI_TaxID=290397;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=2CP-C;
 RG US DOE Joint Genome Institute (JGI-PGF);
 RA Copeland A., Lucas S., Lapidus A., Barry K., Dettler C., Glavina T.,
 RA Hammon N., Israni S., Picluc S., Richardson P.;
 RA "Sequencing of the draft genome assembly of Anaeromyxobacter
 RT dehalogenans 2CP-C";
 RL Submitted (MAY-2005) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=2CP-C;
 RG US DOE Joint Genome Institute (JGI-ORNL);
 RA Larimer P., Land M.;
 RA "Annotation of the draft genome assembly of Anaeromyxobacter
 RT dehalogenans 2CP-C";
 RL Submitted (JUN-2005) to the EMBL/GenBank/DBJ databases.
 CC -!- CAUTION: The sequence shown here is derived from an
 CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
 CC preliminary data.
 DR EMBL: AAHD0100036; EAL77772.1; -; Genomic DNA.
 SQ SEQUENCE 214 AA; 22798 MW; 9C3059FF2E5f7170 CRC64;

Query Match 58.1%; Score 43; DB 2; Length 214;
 Best Local Similarity 50.0%; Pred. No. 25;
 Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLH 14
 ||| :
 Db 42 MGFGLTTVLNLTN 55

RESULT 36
 Q4IKZ0_GIBZE PRELIMINARY; PRT; 541 AA.
 AC Q4IKZ0;
 DT 13-SEP-2005 (TrEMBLrel. 31, Created)
 DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
 DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
 DE Hypothetical protein.
 GN ORFNames=FG02118.1;
 OS Gibberella zeae PH-1.
 OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
 OC Hypocreomycetidae; Nectriaceae; Gibberella.
 OX NCBI_TaxID=229533;
 RN [1]

RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=PH-1;
 RA Birren B., Nusbaum C., Abouelleil A., Allen N., Anderson S.,
 RA Arachchi H.M., Barna N., Bastien V., Bloom T., Boguslavskiy L.,
 RA Bouckgaert B., Butler J., Calvo S.E., Camarata J., Chang J.,
 RA Choepel Y., Collymore A., Cook A., Cooke P., Corum B., Dearlano K.,
 RA Diaz J.S., Dodge S., Dooley K., Dorris L., Elkins T., Engels R.,
 RA Erickson J., Faro S., Ferreira P., FitzGerald M., Gage D., Galagan J.,
 RA Gardyna S., Gierke S., Graham L., Grand-Pierre N., Hafez N.,
 RA Hagopian D., Hagos B., Hall J., Horton L., Hulme W., Iliev I.,
 RA Jaffe D., Johnson R., Jones C., Kanal M., Kamat A., Karatas A.,
 RA Kellis C., Landers T., Levine R., Lindblad-Toh K., Liu G., Liu A.,
 RA Ma L.-J., Mabbitt R., MacLean C., Macdonald P., Major J., Manning J.,
 RA Matthews C., Mauceli E., McCarthy M., Meldrim J., Meneus L.,
 RA Mihova T., Mlenga V., Murphy T., Naylor J., Nguyen C., Nicol R.,
 RA Nielsen C.B., Norbu C., O'Connor T., O'Donnell P., O'Neil D.,
 RA Oliver J., Peterson K., Phunkhang P., Pierre N., Purcell S.,
 RA Rachupka A., Ramasamy U., Raymond C., Retta R., Riese C., Rogov P.,
 RA Roman J., Schauer S., Schuback R., Seaman S., Severy P., Smirnov S.,
 RA Smith C., Spencer B., Stange-Thomann N., Stojanovic N., Stubbs M.,
 RA Talamas J., Tesfaye S., Theodore J., Topham K., Travers M.,
 RA Vassiliou H., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B.,
 RA Wu X., Wyman D., Young G., Zainoun J., Zembek L., Zimmer A., Zody M.,
 RA Lander E.;
 RT "Fusarium graminearum genome sequence";
 RL Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.
 CC -!- CAUTION: The sequence shown here is derived from an
 CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
 CC preliminary data.
 CC EMBL: AACM0100011; EAA69749.1; -; Genomic DNA.
 KW Hypothetical protein.
 SQ SEQUENCE 541 AA; 60552 MW; D9BEFE69CD5AFDDB CRC64;

Query Match 56.8%; Score 42; DB 2; Length 541;
 Best Local Similarity 53.8%; Pred. No. 97;
 Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLH 13
 ||| :
 Db 153 LGYGLLLSEGNVH 165

RESULT 37
 SLIK1_HUMAN STANDARD; PRT; 696 AA.
 ID SLIK1_HUMAN
 AC Q96PX8; Q96SF9;
 DT 05-JUL-2004 (Rel. 44, Created)
 DT 05-JUL-2004 (Rel. 44, Last sequence update)
 DT 13-SEP-2005 (Rel. 48, Last annotation update)
 DE SLIT and NTRK-like protein 1 precursor.
 GN Name=SLITRK1; Synonyms=KIAA1910, LRCC12; ORFNames=UNQ233/PRO266;
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
 OC Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
 RC TISSUE=Brain;
 RX MEDLINE=21456161; PubMed=11572484;
 RX Nagase T., Kikuno R., Ohara O.;
 RT "Prediction of the coding sequences of unidentified human genes. XXI.
 RT The complete sequences of 60 new cDNA clones from brain which code for
 RT large proteins.";
 RL DNA Res. 8:179-187 (2001).
 RN [2]
 RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
 RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
 RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D.T., Brush J.,
 RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
 RA Eaton D., Foster J.S., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
 RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
 RA Lewis L., Liao D., Mark M.R., Robbie E., Sanchez C., Schoenfeld J.,

RA Seehagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
RA Vandenberg R.L., Watanabe C., Wiscand D., Woods K., Xie M.-H.,
RA Yansura D.G., Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A.D.,
RA Wood W.I., Godowski P.J., Gray A.M.;
RT "The secreted protein discovery initiative (SPDI), a large-scale
RT effort to identify novel human secreted and transmembrane proteins: a
RT bioinformatics assessment";
RL Genome Res. 13:2265-2270(2003).
RN (3)
RP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RX PubMed=15057823; DOI=10.1038/nature02379;
RA Dunham A., Matthews L.H., Burton J., Ashurst J.L., Howe K.L.,
RA Ashcroft K.J., Beare D.M., Burford D.C., Hunt S.E.,
RA Griffiths-Jones S., Jones M.C., Keenan S.J., Oliver K., Scott C.E.,
RA Ainscough R., Almeida J.P., Ambrose K.D., Andrews D.T.,
RA Ahehall R.I.S., Babbage A.K., Bagguley C.L., Bailey J., Bannerjee R.,
RA Barlow K.F., Bates K., Beasley H., Bird C.P., Bray-Allen S.,
RA Brown A.J., Brown J.V., Burrill W., Carder C., Carter N.P.,
RA Chapman J.C., Clamp M.E., Clark S.Y., Clarke G., Clee C.M.,
RA Clegg S.C., Cobley V., Collins J.E., Corby N., Coville G.J.,
RA Deloukas P., Dhami P., Dunham I., Dunn M.G., Earthrowl M.E., French L.,
RA Ellington A.G., Faulkner L., Frankish A.G., Gilson C.J., Ghori J.,
RA Garner P., Garnett J., Gilbert J.G.F., Gilson C.J., Ghori J.,
RA Grafham D.V., Gribble S.M., Griffiths C., Hall R.E., Hammond S.,
RA Harley J.L., Hart E.A., Heath P.D., Howden P.J., Huckle E.J.,
RA Hunt P.J., Hunt A.R., Johnson C., Johnson D., Kay M., Kimberley A.M.,
RA King A., Laird G.K., Langford C.J., Lawlor S., Leongamornlert D.A.,
RA Lloyd D.M., Lloyd C., Loveland J.E., Lovell J., Martin S.,
RA Maehregui-Mohammadi M., McLaren S.J., McMurray A., Milne S.,
RA Moore M.J.F., Nickerson T., Palmer S.A., Pearce A.V., Peck A.I.,
RA Pellan S., Phillimore B., Porter K.M., Rice C.M., Searle S.,
RA Sehra H.K., Showkneen R., Skuce C.D., Smith M., Steward C.A.,
RA Sycamore N., Tester J., Thomas D.W., Tracey A., Tromans A., Tubby B.,
RA Wall M., Wallis J.M., West A.P., Whitehead S.L., Willey D.L.,
RA Wilming L., Wray P.W., Wright M.W., Young L., Coulson A., Durbin R.,
RA Hubbard T., Sulston J.E., Beck S., Bentley D.R., Rogers J., Ross M.T.;
RT "The DNA sequence and analysis of human chromosome 13";
RL Nature 428:522-528(2004).
RN (4)
RP IDENTIFICATION, AND TISSUE SPECIFICITY.
RC TISSUE=Brain, and Brain tumor; TISSUE=Brain; TISSUE=Brain;
RX PubMed=14557066; DOI=10.1016/S0378-1119(03)00715-7;
RA Aruga J., Yokota N., Mikoshiba K.;
RT "Human SLITRK family genes: genomic organization and expression
RT profiling in normal brain and brain tumor tissue.";
RL Gene 315:87-94(2003).
CC -!- FUNCTION: Enhances neurite outgrowth (By similarity).
CC -!- SUBCELLULAR LOCATION: Membrane-bound (Potential).
CC -!- TISSUE SPECIFICITY: Expressed predominantly in the frontal lobe of
CC the cerebral cortex of the brain. Also expressed in some
CC astrocytic brain tumors such as astrocytomas, oligodendrogliomas,
CC glioblastomas, gangliogliomas and primitive neuroectodermal tumors.
CC -!- SIMILARITY: Belongs to the SLITRK family.
CC -!- SIMILARITY: Contains 13 LRR (leucine-rich) repeats.
CC -----
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
DR EMBL; AB067497; BAB67803.1; ALT INIT; mRNA.
DR EMBL; AY588289; BAQ88656.1; -; mRNA.
DR EMBL; AY585481; CAC37486.1; -; Genomic DNA.
DR Ensembl; ENSG00000178235; Homo sapiens.
DR HGNC; HGNC:20297; SLITRK1.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR004043; LRR Cterm.
DR InterPro; IPR003591; LRR typ.
DR Pfam; PF00560; LRR_1; 8.
DR SMART; PR00019; LEURICHRPT.
DR SMART; SM00369; LRR typ; 11.
DR SMART; SM00082; LRRCT; 2.

KW Leucine-rich repeat; Repeat; Signal; Transmembrane.
FT SIGNAL 1 17
FT CHAIN 18 696
FT TRANSMEM 623 643
FT REPEAT 57 80
FT REPEAT 81 104
FT REPEAT 105 128
FT REPEAT 130 152
FT REPEAT 153 176
FT REPEAT 178 200
FT REPEAT 214 237
FT REPEAT 374 397
FT REPEAT 399 421
FT REPEAT 423 445
FT REPEAT 446 469
FT REPEAT 470 493
FT REPEAT 495 517
SQ SEQUENCE 696 AA; 77735 MW; E0E9ACEDE0F0ACEC CRC64;

Query Match 56.8%; Score 42; DB 1; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.2e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GWLSKLSLHN 14
DB 493 GWLSKLSLHN 503

RESULT 38
SLITRK_MOUSE STANDARD; PRT; 696 AA.
ID SLITRK_MOUSE
AC Q910C1; Q9CXLO;
DT 05-JUL-2004 (Rel. 44, Created)
DT 05-JUL-2004 (Rel. 44, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE SLIT and NTRK-like protein 1 precursor.
GN Name=Slitrk1; Synonyms=Slitk1;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muroidae; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE, FUNCTION, TISSUE SPECIFICITY, AND DEVELOPMENTAL
RP STAGE.
RX PubMed=14550773; DOI=10.1016/S1044-7431(03)00129-5;
RA Aruga J.; Mikoshiba K.;
RT "Identification and characterization of Slitrk, a novel neuronal
RT transmembrane protein family controlling neurite outgrowth.";
RL Mol. Cell. Neurosci. 24:117-129(2003).
RN [2]
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] OF 369-696.
RC STRAIN=C57BL/6J; TISSUE=Head;
RA MEDLINE=22354683; PubMed=12466851; DOI=10.1038/nature01266;
RX Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,
RA Nikaudo I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,
RA Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,
RA Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,
RA Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,
RA Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,
RA Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Godzik A., Gough J.,
RA Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,
RA Kanagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,
RA Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,
RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,
RA Ravasi T., Reed J.C., Reed J.C., Reid J., Ring B.Z., Ringwald M.,
RA Saitana R., Schneider C., Semple C.A., Setou M., Shimada K.,
RA Sultana R., Takenaka I., Taylor M.S., Teasdale R.D., Tomita M.,
RA Verardo R., Wagner L., Wählstedt C., Wang I., Watanabe Y., Wells C.,
RA Wilming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang L.,

RESULT 39	Q5US16 HUMAN PRELIMINARY;	PRT;	696 AA.
ID	Q5US16 HUMAN PRELIMINARY;	PRT;	696 AA.
AC	Q5US16;		
DT	01-FEB-2005 (TrEMBLrel. 29, Created)		
DT	01-FEB-2005 (TrEMBLrel. 29, Last sequence update)		
DT	01-FEB-2005 (TrEMBLrel. 29, Last annotation update)		
DE	Split and trk like 1 protein.		
GN	Name=SLITRK1;		
OS	Homo sapiens (Human).		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
OC	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;		
OC	Homo.		
OX	NCBI_TaxID=9606;		
OX	[1]		
RP	NUCLEOTIDE SEQUENCE.		
RC	TISSUE=Brain;		
RX	MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;		
RA	Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,		
RA	Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,		
RA	Altshul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,		
RA	Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,		
RA	Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,		
RA	Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,		
RA	Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,		
RA	Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,		
RA	Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,		
RA	Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,		
RA	Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,		
RA	Fahy J., Helton E., Kettman M., Madan A.C., Rodriguez S., Sanchez A.,		
RA	Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,		
RA	Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,		
RA	Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,		
RA	Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,		
RA	Schmerch A., Schein J.E., Jones S.J.M., Marra M.A.,		
RT	"Generation and initial analysis of more than 15,000 full-length human		
RT	and mouse cDNA sequences."		
RN	Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).		
RN	[2]		
RP	NUCLEOTIDE SEQUENCE.		
RC	TISSUE=Brain;		
RC	Director MGC Project;		
RL	Submitted (MAY-2003) to the EMBL/GenBank/DBJ databases.		
RL	EMBL; BC051738; AAHS1738.1; -; mRNA.		
DR	InterPro; IPR001611; LRR.		
DR	InterPro; IPR000483; LRR_Cterm.		
DR	InterPro; IPR003591; LRR_typ.		
DR	Pfam; PF00560; LRR_1; 8.		
DR	PRINTS; PR00019; LEURICHRPT.		
DR	SMART; SM00369; LRR_TYP; 11.		
DR	SMART; SM00082; LRRCT; 2.		
KW	Leucine-rich repeat; Repeat.		
SK	SEQUENCE 696 AA; 77721 MW; F082AFCCD2E0ADB CRC64;		
Query Match	56.8%;	Score 42;	DB 2; Length 696;
Best Local Similarity	63.6%;	Pred. No. 1.2e+02;	
Matches	7; Conservative	4; Mismatches	0; Indels 0; Gaps
Qy	4 GMALSKINLHN 14		
Db	493 GVSLSKLSLHN 503		
RESULT 40	Q5RAC4 PONPY		
ID	Q5RAC4 PONPY PRELIMINARY;	PRT;	696 AA.
AC	Q5RAC4;		
DT	01-FEB-2005 (TrEMBLrel. 29, Created)		
DT	01-FEB-2005 (TrEMBLrel. 29, Last sequence update)		
DT	01-FEB-2005 (TrEMBLrel. 29, Last annotation update)		
DE	Hypotheical protein DKFZp459G0529.		

Search completed: May 13, 2006, 08:13:59
Job time : 232 secs